

ANALYTICAL REPORT

Job Number: 720-10340-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma
Project Manager I

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08/16/2007

Job Narrative 720-J10340-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method 8081A: The continuing calibration verification (CCV) for delta-BHC and Endrin recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8082: Surrogate recovery for the following sample(s) was outside the upper control limit: 720-10340-15. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: The following sample(s) was diluted due to the abundance of non-target analytes: 720-10340-15. Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10340-1

Lab Sample ID Client Sample ID Analyte	Result / Qualifier	Reporting Limit	Units	Method
720-10340-5 WS-11 A-D				
Diesel Range Organics [C10-C28]	19	0.99	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]	130	50	mg/Kg	8015B
Dieldrin	16	9.9	ug/Kg	8081A
4,4'-DDT	25	9.9	ug/Kg	8081A
4,4'-DDE	12	9.9	ug/Kg	8081A
Arsenic	4.0	0.97	mg/Kg	6010B
Barium	180	0.97	mg/Kg	6010B
Cadmium	0.49	0.49	mg/Kg	6010B
Chromium	91	0.97	mg/Kg	6010B
Lead	360	0.97	mg/Kg	6010B
Silver	1.0	0.97	mg/Kg	6010B
Zinc	400	0.97	mg/Kg	6010B
Mercury	0.18	0.049	mg/Kg	7471A
Morodry	0.10	0.010	mg/ng	
720-10340-10 WS-12 A-D				
Diesel Range Organics [C10-C28]	21	0.99	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]	110	50	mg/Kg	8015B
Dieldrin	15	10	ug/Kg	8081A
4,4'-DDT	24	10	ug/Kg	8081A
4,4'-DDE	14	10	ug/Kg	8081A
Arsenic	4.4	1.0	mg/Kg	6010B
Barium	220	1.0	mg/Kg	6010B
Cadmium	0.96	0.51	mg/Kg	6010B
Chromium	72	1.0	mg/Kg	6010B
Lead	690	1.0	mg/Kg	6010B
Silver	1.3	1.0	mg/Kg	6010B
Zinc	450	1.0	mg/Kg	6010B
Mercury	0.20	0.051	mg/Kg	7471A
720-10340-15 WS-13 A-D				
	10	1.0	malla	901ED
Diesel Range Organics [C10-C28]	18		mg/Kg	8015B
Motor Oil Range Organics [C24-C36]	100	50	mg/Kg	8015B
Dieldrin	14 19	9.9	ug/Kg	8081A
4,4'-DDT		9.9	ug/Kg	8081A
4,4'-DDE	12	9.9	ug/Kg	8081A
Arsenic	4.4	0.96	mg/Kg	6010B
Barium	230	0.96	mg/Kg	6010B
Cadmium	0.67	0.48	mg/Kg	6010B
Chromium	77	0.96	mg/Kg	6010B
Lead	560	0.96	mg/Kg	6010B
Silver	2.0	0.96	mg/Kg	6010B
Zinc	540	0.96	mg/Kg	6010B
Mercury	0.43	0.050	mg/Kg	7471A

METHOD SUMMARY

Client: ERRG Job Number: 720-10340-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS Purge and Trap for Solids	TAL SF TAL SF	SW846 8260B	SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) Ultrasonic Extraction	TAL SF	SW846 8015B	SW846 3550B
Organochlorine Pesticides by Gas Chromatography Ultrasonic Extraction	TAL SF TAL SF	SW846 8081A	SW846 3550B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography Ultrasonic Extraction	TAL SF TAL SF	SW846 8082	SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A
Asbestos	SC0109	EPA EPA	

Lab References:

SC0109 = Forensic Analytical Specialties, Inc

TAL SF = TestAmerica San Francisco

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10340-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10340-5	WS-11 A-D	Solid	08/14/2007 1410	08/15/2007 0925
720-10340-10	WS-12 A-D	Solid	08/14/2007 1400	08/15/2007 0925
720-10340-15	WS-13 A-D	Solid	08/14/2007 1350	08/15/2007 0925

60 - 140

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-11 A-D

1,2-Dichloroethane-d4 (Surr)

 Lab Sample ID:
 720-10340-5
 Date Sampled:
 08/14/2007
 1410

 Client Matrix:
 Solid
 Date Received:
 08/15/2007
 0925

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-24845 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-24797 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.53 g

Date Analyzed: 08/15/2007 1128 Final Weight/Volume: 10.0 mL Date Prepared: 08/15/2007 0729

97

Result (mg/Kg) Qualifier RLAnalyte DryWt Corrected: N Benzene ND 0.0045 Ethylbenzene ND 0.0045 Toluene ND 0.0045 Xylenes, Total 0.0090 ND Gasoline Range Organics (GRO)-C5-C12 ND 0.23 %Rec Acceptance Limits Surrogate Toluene-d8 (Surr) 96 70 - 130

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-12 A-D

 Lab Sample ID:
 720-10340-10
 Date Sampled:
 08/14/2007
 1400

 Client Matrix:
 Solid
 Date Received:
 08/15/2007
 0925

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-24845 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-24797 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.15 g

Date Analyzed: 08/15/2007 1212 Final Weight/Volume: 10.0 mL Date Prepared: 08/15/2007 0729

Result (mg/Kg) Qualifier RLAnalyte DryWt Corrected: N Benzene ND 0.0049 Ethylbenzene ND 0.0049 Toluene ND 0.0049 Xylenes, Total 0.0097 ND Gasoline Range Organics (GRO)-C5-C12 ND 0.24 %Rec Acceptance Limits Surrogate Toluene-d8 (Surr) 95 70 - 130 1,2-Dichloroethane-d4 (Surr) 92 60 - 140

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-13 A-D

 Lab Sample ID:
 720-10340-15
 Date Sampled:
 08/14/2007 1350

 Client Matrix:
 Solid
 Date Received:
 08/15/2007 0925

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-24845 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-24797 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.22 g

Date Analyzed: 08/15/2007 1150 Final Weight/Volume: 10.0 mL Date Prepared: 08/15/2007 0729

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0048
Ethylbenzene		ND		0.0048
Toluene		ND		0.0048
Xylenes, Total		ND		0.0096
Gasoline Range Organics (GRO)-C	5-C12	ND		0.24
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		97		70 - 130
1,2-Dichloroethane-d4 (Surr)		96		60 - 140

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-11 A-D

 Lab Sample ID:
 720-10340-5
 Date Sampled:
 08/14/2007
 1410

 Client Matrix:
 Solid
 Date Received:
 08/15/2007
 0925

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B Analysis Batch: 720-24895 Instrument ID: HP DRO5
Preparation: 3550B Prep Batch: 720-24815 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.19 g

Date Analyzed: 08/16/2007 0910 Final Weight/Volume: 5 mL

Date Prepared: 08/15/2007 1137 Injection Volume:

Column ID: PRIMARY

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL
Diesel Range Organics [C10-C28] 19 0.99
Motor Oil Range Organics [C24-C36] 130 50

Surrogate%RecAcceptance Limitsp-Terphenyl7346 - 105

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-12 A-D

Lab Sample ID: 720-10340-10 Date Sampled: 08/14/2007 1400 Client Matrix: Solid Date Received: 08/15/2007 0925

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

HP DRO5 Method: 8015B Analysis Batch: 720-24892 Instrument ID: Preparation: 3550B Prep Batch: 720-24815 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume:

30.21 g Date Analyzed: 08/16/2007 1030 Final Weight/Volume: 5 mL

Date Prepared: 08/15/2007 1137 Injection Volume:

Column ID: **PRIMARY**

DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RLDiesel Range Organics [C10-C28] 21 0.99 Motor Oil Range Organics [C24-C36] 110 50

%Rec Acceptance Limits Surrogate 46 - 105 p-Terphenyl 71

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-13 A-D

Lab Sample ID: 720-10340-15 Date Sampled: 08/14/2007 1350 Client Matrix: Solid Date Received: 08/15/2007 0925

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

HP DRO5 Method: 8015B Analysis Batch: 720-24892 Instrument ID: Preparation: 3550B Prep Batch: 720-24815 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume:

30.05 g Date Analyzed: 08/16/2007 1057 Final Weight/Volume: 5 mL

Date Prepared: 08/15/2007 1137 Injection Volume:

Column ID: **PRIMARY**

Result (mg/Kg) Qualifier Analyte DryWt Corrected: N RL Diesel Range Organics [C10-C28] 18 1.0 Motor Oil Range Organics [C24-C36] 100 50

%Rec Acceptance Limits Surrogate 46 - 105 p-Terphenyl 68

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-11 A-D

 Lab Sample ID:
 720-10340-5
 Date Sampled:
 08/14/2007
 1410

 Client Matrix:
 Solid
 Date Received:
 08/15/2007
 0925

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A Analysis Batch: 720-24907 Instrument ID: Varian Pest 1

Preparation: 3550B Prep Batch: 720-24818 Lab File ID: N/A

Dilution: 5.0 Initial Weight/Volume: 30.25 g
Date Analyzed: 08/16/2007 1249 Final Weight/Volume: 10 mL

Date Analyzed: 08/16/2007 1249 Final Weight/Volume: 10
Date Prepared: 08/15/2007 1145 Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Aldrin		ND		9.9
Dieldrin		16		9.9
Endrin aldehyde		ND		9.9
Endrin		ND		9.9
Endrin ketone		ND		9.9
Heptachlor		ND		9.9
Heptachlor epoxide		ND		9.9
4,4'-DDT		25		9.9
4,4'-DDE		12		9.9
4,4'-DDD		ND		9.9
Endosulfan I		ND		9.9
Endosulfan II		ND		9.9
alpha-BHC		ND		9.9
beta-BHC		ND		9.9
gamma-BHC (Lindane)		ND		9.9
delta-BHC		ND		9.9
Endosulfan sulfate		ND		9.9
Methoxychlor		ND		9.9
Toxaphene		ND		200
Chlordane (technical)		ND		200
alpha-Chlordane		ND		9.9
gamma-Chlordane		ND		9.9
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		75		50 - 125
DCB Decachlorobiphenyl		83		46 - 142

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-12 A-D

 Lab Sample ID:
 720-10340-10
 Date Sampled:
 08/14/2007
 1400

 Client Matrix:
 Solid
 Date Received:
 08/15/2007
 0925

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A Analysis Batch: 720-24907 Instrument ID: Varian Pest 1

Preparation: 3550B Prep Batch: 720-24818 Lab File ID: N/A

Dilution: 5.0 Initial Weight/Volume: 30.01 g
Date Analyzed: 08/15/2007 1615 Final Weight/Volume: 10 mL

Date Prepared: 08/15/2007 1145 Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Aldrin		ND		10
Dieldrin		15		10
Endrin aldehyde		ND		10
Endrin		ND		10
Endrin ketone		ND		10
Heptachlor		ND		10
Heptachlor epoxide		ND		10
4,4'-DDT		24		10
4,4'-DDE		14		10
4,4'-DDD		ND		10
Endosulfan I		ND		10
Endosulfan II		ND		10
alpha-BHC		ND		10
beta-BHC		ND		10
gamma-BHC (Lindane)		ND		10
delta-BHC		ND		10
Endosulfan sulfate		ND		10
Methoxychlor		ND		10
Toxaphene		ND		200
Chlordane (technical)		ND		200
alpha-Chlordane		ND		10
gamma-Chlordane		ND		10
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		90		50 - 125
DCB Decachlorobiphenyl		116		46 - 142

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-13 A-D

 Lab Sample ID:
 720-10340-15
 Date Sampled:
 08/14/2007
 1350

 Client Matrix:
 Solid
 Date Received:
 08/15/2007
 0925

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A Analysis Batch: 720-24907 Instrument ID: Varian Pest 1

Preparation: 3550B Prep Batch: 720-24818 Lab File ID: N/A

Dilution: 5.0 Initial Weight/Volume: 30.36 g
Date Analyzed: 08/15/2007 1635 Final Weight/Volume: 10 mL

Date Prepared: 08/15/2007 1145 Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Aldrin		ND		9.9
Dieldrin		14		9.9
Endrin aldehyde		ND		9.9
Endrin		ND		9.9
Endrin ketone		ND		9.9
Heptachlor		ND		9.9
Heptachlor epoxide		ND		9.9
4,4'-DDT		19		9.9
4,4'-DDE		12		9.9
4,4'-DDD		ND		9.9
Endosulfan I		ND		9.9
Endosulfan II		ND		9.9
alpha-BHC		ND		9.9
beta-BHC		ND		9.9
gamma-BHC (Lindane)		ND		9.9
delta-BHC		ND		9.9
Endosulfan sulfate		ND		9.9
Methoxychlor		ND		9.9
Toxaphene		ND		200
Chlordane (technical)		ND		200
alpha-Chlordane		ND		9.9
gamma-Chlordane		ND		9.9
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		84		50 - 125
DCB Decachlorobiphenyl		108		46 - 142

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-11 A-D

 Lab Sample ID:
 720-10340-5
 Date Sampled:
 08/14/2007
 1410

 Client Matrix:
 Solid
 Date Received:
 08/15/2007
 0925

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 720-24902 Instrument ID: Agilent PCB 2

Preparation: 3550B Prep Batch: 720-24816 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.25 g

Date Analyzed: 08/16/2007 1108 Final Weight/Volume: 10 mL
Date Prepared: 08/15/2007 1142 Injection Volume:

Column ID: PRIMARY

Qualifier Analyte DryWt Corrected: N Result (ug/Kg) RL PCB-1016 ND 50 PCB-1221 ND 50 PCB-1232 ND 50 50 PCB-1242 ND PCB-1248 50 ND PCB-1254 ND 50 PCB-1260 ND 50 Acceptance Limits Surrogate %Rec Tetrachloro-m-xylene 94 46 - 111 DCB Decachlorobiphenyl 88 34 - 106

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-12 A-D

 Lab Sample ID:
 720-10340-10
 Date Sampled:
 08/14/2007
 1400

 Client Matrix:
 Solid
 Date Received:
 08/15/2007
 0925

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 720-24902 Instrument ID: Agilent PCB 2

Preparation: 3550B Prep Batch: 720-24816 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.01 g

Date Analyzed: 08/16/2007 1127 Final Weight/Volume: 10 mL
Date Prepared: 08/15/2007 1142 Injection Volume:

Column ID: PRIMARY

Qualifier Analyte DryWt Corrected: N Result (ug/Kg) RL PCB-1016 ND 50 PCB-1221 ND 50 PCB-1232 ND 50 50 PCB-1242 ND PCB-1248 50 ND PCB-1254 ND 50 PCB-1260 ND 50 Acceptance Limits Surrogate %Rec Tetrachloro-m-xylene 97 46 - 111 DCB Decachlorobiphenyl 89 34 - 106

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-13 A-D

 Lab Sample ID:
 720-10340-15
 Date Sampled:
 08/14/2007 1350

 Client Matrix:
 Solid
 Date Received:
 08/15/2007 0925

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 720-24902 Instrument ID: Agilent PCB 2

Preparation: 3550B Prep Batch: 720-24816 Lab File ID: N/A

Dilution: 5.0 Initial Weight/Volume: 30.36 g

Date Analyzed: 08/16/2007 1146 Final Weight/Volume: 10 mL

Date Prepared: 08/15/2007 1142 Injection Volume: Column ID: PRIMARY

Qualifier Analyte DryWt Corrected: N Result (ug/Kg) RLPCB-1016 ND 250 PCB-1221 ND 250 PCB-1232 ND 250 250 PCB-1242 ND PCB-1248 250 ND PCB-1254 ND 250 PCB-1260 ND 250 Acceptance Limits Surrogate %Rec Tetrachloro-m-xylene 136 Χ 46 - 111 Χ DCB Decachlorobiphenyl 127 34 - 106

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-11 A-D

 Lab Sample ID:
 720-10340-5
 Date Sampled:
 08/14/2007
 1410

 Client Matrix:
 Solid
 Date Received:
 08/15/2007
 0925

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-24798 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-24817 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.03 g
Date Analyzed: 08/15/2007 2036 Final Weight/Volume: 50 mL

Date Analyzed: 08/15/2007 2036

Date Prepared: 08/15/2007 1144

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.0		0.97
Barium		180		0.97
Cadmium		0.49		0.49
Chromium		91		0.97
Lead		360		0.97
Selenium		ND		1.9
Silver		1.0		0.97
Zinc.		400		0.97

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-24863 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-24833 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g

Date Analyzed: 08/15/2007 2020 Final Weight/Volume: 50 mL

Date Prepared: 08/15/2007 1359

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.18 0.049

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-12 A-D

 Lab Sample ID:
 720-10340-10
 Date Sampled:
 08/14/2007
 1400

 Client Matrix:
 Solid
 Date Received:
 08/15/2007
 0925

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-24798Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-24817Lab File ID:N/ADilution:1.0Initial Weight/Volume:0.99 g

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 08/15/2007 2039 Final Weight/Volume: 50 mL

Date Prepared: 08/15/2007 1144

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.4		1.0
Barium		220		1.0
Cadmium		0.96		0.51
Chromium		72		1.0
Lead		690		1.0
Selenium		ND		2.0
Silver		1.3		1.0
Zinc		450		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-24863Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-24833Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 08/15/2007 2021 Final Weight/Volume: 50 mL
Date Prepared: 08/15/2007 1359

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.20 0.051

Client: ERRG Job Number: 720-10340-1

Client Sample ID: WS-13 A-D

 Lab Sample ID:
 720-10340-15
 Date Sampled:
 08/14/2007 1350

 Client Matrix:
 Solid
 Date Received:
 08/15/2007 0925

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-24798Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-24817Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.04 g

Date Analyzed: 08/15/2007 2043 Final Weight/Volume: 50 mL

Date Prepared: 08/15/2007 1144

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.4		0.96
Barium		230		0.96
Cadmium		0.67		0.48
Chromium		77		0.96
Lead		560		0.96
Selenium		ND		1.9
Silver		2.0		0.96
Zinc		540		0.96

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-24863Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-24833Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g
Date Analyzed: 08/15/2007 2022 Final Weight/Volume: 50 mL
Date Prepared: 08/15/2007 1359

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.43 0.050

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10340-1

Lab Section	Qualifier	Description
000 : 1104		
GC Semi VOA		
	X	Surrogate exceeds the control limits

Client: ERRG Job Number: 720-10340-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-24797					
LCS 720-24797/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-24797/3-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-24797/1-A	Method Blank	T	Solid	5030B	
720-10340-5	WS-11 A-D	Т	Solid	5030B	
720-10340-10	WS-12 A-D	T	Solid	5030B	
720-10340-10MS	Matrix Spike	T	Solid	5030B	
720-10340-10MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-10340-15	WS-13 A-D	Т	Solid	5030B	
Analysis Batch:720-24	845				
LCS 720-24797/2-A	Lab Control Spike	Т	Solid	8260B	720-24797
LCSD 720-24797/3-A	Lab Control Spike Duplicate	T	Solid	8260B	720-24797
MB 720-24797/1-A	Method Blank	T	Solid	8260B	720-24797
720-10340-5	WS-11 A-D	T	Solid	8260B	720-24797
720-10340-10	WS-12 A-D	T	Solid	8260B	720-24797
720-10340-10MS	Matrix Spike	T	Solid	8260B	720-24797
720-10340-10MSD	Matrix Spike Duplicate	T	Solid	8260B	720-24797
720-10340-15	WS-13 A-D	Т	Solid	8260B	720-24797

Report Basis

T = Total

Client: ERRG Job Number: 720-10340-1

QC Association Summary

Lab Sample ID C	lient Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA	,				
Prep Batch: 720-24815					
LCS 720-24815/2-A	Lab Control Spike	T	Solid	3550B	
LCSD 720-24815/3-A	Lab Control Spike Duplicate	Т	Solid	3550B	
MB 720-24815/1-A	Method Blank	Т	Solid	3550B	
720-10340-A-5-B MSMS	Matrix Spike	Т	Solid	3550B	
720-10340-A-5-C MSDMSD	Matrix Spike Duplicate	T	Solid	3550B	
720-10340-5	WS-11 A-D	Т	Solid	3550B	
720-10340-10	WS-12 A-D	Т	Solid	3550B	
720-10340-15	WS-13 A-D	Т	Solid	3550B	
Prep Batch: 720-24816					
LCS 720-24816/2-A	Lab Control Spike	T	Solid	3550B	
LCSD 720-24816/3-A	Lab Control Spike Duplicate	Т	Solid	3550B	
MB 720-24816/1-A	Method Blank	T	Solid	3550B	
720-10340-5	WS-11 A-D	Т	Solid	3550B	
720-10340-10	WS-12 A-D	Т	Solid	3550B	
720-10340-15	WS-13 A-D	Т	Solid	3550B	
Prep Batch: 720-24818					
LCS 720-24818/2-A	Lab Control Spike	Т	Solid	3550B	
LCSD 720-24818/3-A	Lab Control Spike Duplicate	Ť	Solid	3550B	
MB 720-24818/1-A	Method Blank	Т	Solid	3550B	
720-10340-5	WS-11 A-D	Ť	Solid	3550B	
720-10340-10	WS-12 A-D	Ť	Solid	3550B	
720-10340-15	WS-13 A-D	Ť	Solid	3550B	
Analysis Batch:720-24892					
LCS 720-24815/2-A	Lab Control Spike	T	Solid	8015B	720-24815
LCSD 720-24815/3-A	Lab Control Spike Duplicate	Т	Solid	8015B	720-24815
MB 720-24815/1-A	Method Blank	Т	Solid	8015B	720-24815
720-10340-A-5-B MSMS	Matrix Spike	Т	Solid	8015B	720-24815
720-10340-A-5-C MSDMSD	Matrix Spike Duplicate	Т	Solid	8015B	720-24815
720-10340-10	WS-12 A-D	Т	Solid	8015B	720-24815
720-10340-15	WS-13 A-D	Т	Solid	8015B	720-24815
Analysis Batch:720-24895					
720-10340-5	WS-11 A-D	Т	Solid	8015B	720-24815
Analysis Batch:720-24902					
LCS 720-24816/2-A	Lab Control Spike	Т	Solid	8082	720-24816
LCSD 720-24816/3-A	Lab Control Spike Duplicate	T	Solid	8082	720-24816
MB 720-24816/1-A	Method Blank	Т	Solid	8082	720-24816
720-10340-5	WS-11 A-D	Т	Solid	8082	720-24816
720-10340-10	WS-12 A-D	Т	Solid	8082	720-24816
720-10340-15	WS-13 A-D	Т	Solid	8082	720-24816
	-				

Client: ERRG Job Number: 720-10340-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Lab Sample ID	Chefft Sample ID	Duoio	Chefft Matrix	Metrioa	гтер васси
GC Semi VOA					
Analysis Batch:720-24	907				
LCS 720-24818/2-A	Lab Control Spike	T	Solid	8081A	720-24818
LCSD 720-24818/3-A	Lab Control Spike Duplicate	Т	Solid	8081A	720-24818
MB 720-24818/1-A	Method Blank	Т	Solid	8081A	720-24818
720-10340-5	WS-11 A-D	Т	Solid	8081A	720-24818
720-10340-10	WS-12 A-D	Т	Solid	8081A	720-24818
720-10340-15	WS-13 A-D	Т	Solid	8081A	720-24818

Report Basis

T = Total

Client: ERRG Job Number: 720-10340-1

QC Association Summary

~	,	Report	•		
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
•					op zate
Metals					
Analysis Batch:720-24798 LCS 720-24817/2-A	Lab Control Spike	Т	Solid	6010B	720-24817
LCSD 720-24817/3-A	Lab Control Spike Duplicate	T T	Solid	6010B	720-24817
LCSSRM 720-24817/25-A	LCS-Standard Reference Material	, T	Solid	6010B	720-24817
MB 720-24817/1-A	Method Blank	, T	Solid	6010B	720-24817
720-10298-A-25-E MS	Matrix Spike	T	Solid	6010B	720-24817
720-10298-A-25-F MSD	Matrix Spike Duplicate	T T	Solid	6010B	720-24817
720-10296-A-25-F WSD	WS-11 A-D	, T	Solid	6010B	720-24817
720-10340-3	WS-17 A-D WS-12 A-D	T T	Solid	6010B	720-24817
		, T	Solid		
720-10340-15	WS-13 A-D	ı	Solia	6010B	720-24817
Prep Batch: 720-24817					
LCS 720-24817/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-24817/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
LCSSRM 720-24817/25-A	LCS-Standard Reference Material	Т	Solid	3050B	
MB 720-24817/1-A	Method Blank	Т	Solid	3050B	
720-10298-A-25-E MS	Matrix Spike	Т	Solid	3050B	
720-10298-A-25-F MSD	Matrix Spike Duplicate	T	Solid	3050B	
720-10340-5	WS-11 A-D	Ť	Solid	3050B	
720-10340-10	WS-12 A-D	Ť	Solid	3050B	
720-10340-15	WS-13 A-D	T	Solid	3050B	
B					
Prep Batch: 720-24833		_	0 11 1		
LCS 720-24833/2-A	Lab Control Spike	T	Solid	7471A	
LCSD 720-24833/3-A	Lab Control Spike Duplicate	T	Solid	7471A	
MB 720-24833/1-A	Method Blank	T	Solid	7471A	
720-10298-A-25-H MS	Matrix Spike	T	Solid	7471A	
720-10298-A-25-I MSD	Matrix Spike Duplicate	T	Solid	7471A	
720-10340-5	WS-11 A-D	T	Solid	7471A	
720-10340-10	WS-12 A-D	T	Solid	7471A	
720-10340-15	WS-13 A-D	T	Solid	7471A	
Analysis Batch:720-24863					
LCS 720-24833/2-A	Lab Control Spike	Т	Solid	7471A	720-24833
LCSD 720-24833/3-A	Lab Control Spike Duplicate	Ť	Solid	7471A	720-24833
MB 720-24833/1-A	Method Blank	Ť	Solid	7471A	720-24833
720-10298-A-25-H MS	Matrix Spike	Ť	Solid	7471A	720-24833
720-10298-A-25-I MSD	Matrix Spike Duplicate	Ť	Solid	7471A	720-24833
720-10290-A-23-1 MSD	WS-11 A-D	, T	Solid	7471A 7471A	720-24833
720-10340-10	WS-17 A-D WS-12 A-D	T	Solid	7471A 7471A	720-24833
720-10340-10	WS-12 A-D WS-13 A-D	Ť	Solid	747 IA 7471A	720-24833
120-10040-10	VVO-13 M-D	1	Juliu	141 IA	120-24033

Report Basis T = Total

Client: ERRG Job Number: 720-10340-1

Method Blank - Batch: 720-24797 Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-24797/1-A Instrument ID: Varian 3900E Analysis Batch: 720-24845

Client Matrix: Solid Prep Batch: 720-24797 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g Final Weight/Volume: 10.0 mL

Date Analyzed: 08/15/2007 0945 Date Prepared: 08/15/2007 0729

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Ethylbenzene	ND		0.0050
Toluene	ND		0.0050
Xylenes, Total	ND		0.010
Gasoline Range Organics (GRO)-C5-C12	ND		0.25
Surrogate	% Rec	Acceptance Lim	nits
Toluene-d8 (Surr)	95	70 - 130	
1,2-Dichloroethane-d4 (Surr)	99	60 - 140	

Lab Control Spike/ Method: 8260B Lab Control Spike Duplicate Recovery Report - Batch: 720-24797 Preparation: 5030B

LCS Lab Sample ID: LCS 720-24797/2-A Analysis Batch: 720-24845 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24797 Lab File ID: c:\varianws\data\200708\0{ Dilution: 1.0 Initial Weight/Volume: 5.00 g

Units: mg/Kg 08/15/2007 0900 Final Weight/Volume: Date Analyzed: 10.0 mL

Date Prepared: 08/15/2007 0729

LCSD Lab Sample ID: LCSD 720-24797/3-A Analysis Batch: 720-24845 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24797 Lab File ID: c:\varianws\data\200708\081 Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g

08/15/2007 0923 Final Weight/Volume: 10.0 mL Date Analyzed:

% Rec. Limit LCS LCSD **RPD** RPD Limit LCS Qual LCSD Qual Analyte Benzene 86 88 69 - 129 2 20 92 98 70 - 130 7 20 Toluene Gasoline Range Organics (GRO)-C5-C12 71 60 - 130 20 11 LCS % Rec LCSD % Rec Surrogate Acceptance Limits Toluene-d8 (Surr) 97 98 70 - 130 81 60 - 140 1,2-Dichloroethane-d4 (Surr) 84

Calculations are performed before rounding to avoid round-off errors in calculated results.

Date Prepared:

08/15/2007 0729

Client: ERRG Job Number: 720-10340-1

Matrix Spike/ Method: 8260B
Matrix Spike Duplicate Recovery Report - Batch: 720-24797 Preparation: 5030B

MS Lab Sample ID: 720-10340-10 Analysis Batch: 720-24845 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24797 Lab File ID: c:\varianws\data\200708\(

Dilution: 1.0 Initial Weight/Volume: 5.22 g

Date Analyzed: 08/15/2007 1235 Final Weight/Volume: 10.0 mL Date Prepared: 08/15/2007 0729

MSD Lab Sample ID: 720-10340-10 Analysis Batch: 720-24845 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24797 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.10 g

Date Analyzed: 08/15/2007 1257 Final Weight/Volume: 10.0 mL

Date Prepared: 08/15/2007 0729

	<u>%</u>	Rec.				
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Benzene	91	92	69 - 129	3	20	
Toluene	99	100	70 - 130	3	20	
Gasoline Range Organics (GRO)-C5-C12	69	63	60 - 130	6	20	
Surrogate		MS % Rec	MSD %	% Rec	Acce	ptance Limits
Toluene-d8 (Surr)		98	98		70	0 - 130
1,2-Dichloroethane-d4 (Surr)		85	84		60) - 140

RL

46 - 105

Client: ERRG Job Number: 720-10340-1

Method Blank - Batch: 720-24815 Method: 8015B Preparation: 3550B

Lab Sample ID: MB 720-24815/1-A Analysis Batch: 720-24892 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-24815 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.16 g
Date Analyzed: 08/16/2007 0030 Final Weight/Volume: 5 mL

Date Analyzed: 08/16/2007 0030 Final Weight/Volume: 5 mL Date Prepared: 08/15/2007 1137 Injection Volume:

Column ID: PRIMARY

Result

Qual

Diesel Range Organics [C10-C28] ND 0.99
Motor Oil Range Organics [C24-C36] ND 50

Surrogate % Rec Acceptance Limits

p-Terphenyl 78 46 - 105

Lab Control Spike/ Method: 8015B
Lab Control Spike Duplicate Recovery Report - Batch: 720-24815 Preparation: 3550B

LCS Lab Sample ID: LCS 720-24815/2-A Analysis Batch: 720-24892 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-24815 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.15 g

Date Analyzed: 08/15/2007 2336 Final Weight/Volume: 5 mL

Date Prepared: 08/15/2007 1137 Injection Volume: Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-24815/3-A Analysis Batch: 720-24892 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-24815 Lab File ID: N/A

80

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.22 g

Date Analyzed: 08/16/2007 0003 Final Weight/Volume: 5 mL
Date Prepared: 08/15/2007 1137 Injection Volume:

Column ID: PRIMARY

COMMITTE. PRIMARY

% Rec. LCS **RPD** Analyte LCSD Limit RPD Limit LCS Qual LCSD Qual Diesel Range Organics [C10-C28] 91 92 50 - 130 0 30 LCS % Rec Surrogate LCSD % Rec Acceptance Limits

80

Calculations are performed before rounding to avoid round-off errors in calculated results.

p-Terphenyl

Analyte

PRIMARY

46 - 105

Column ID:

Client: ERRG Job Number: 720-10340-1

Matrix Spike/ Method: 8015B
Matrix Spike Duplicate Recovery Report - Batch: 720-24815 Preparation: 3550B

MS Lab Sample ID: 720-10340-A-5-B MS Analysis Batch: 720-24892 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-24815 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.19 g
Date Analyzed: 08/16/2007 0937 Final Weight/Volume: 5 mL

Date Prepared: 08/15/2007 1137 Injection Volume:

MSD Lab Sample ID: 720-10340-A-5-C MSD Analysis Batch: 720-24892 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-24692 Institution ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.30 g

Date Analyzed: 08/16/2007 1003 Final Weight/Volume: 5 mL
Date Prepared: 08/15/2007 1137 Injection Volume:

Column ID: PRIMARY

77

% Rec. MS MSD RPD MS Qual MSD Qual Analyte Limit **RPD Limit** Diesel Range Organics [C10-C28] 50 - 130 98 104 5 30 Surrogate MS % Rec MSD % Rec Acceptance Limits

79

Calculations are performed before rounding to avoid round-off errors in calculated results.

p-Terphenyl

Client: ERRG Job Number: 720-10340-1

Method Blank - Batch: 720-24818

Method: 8081A Preparation: 3550B

Lab Sample ID: MB 720-24818/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/15/2007 1754 Date Prepared: 08/15/2007 1145 Analysis Batch: 720-24907

Prep Batch: 720-24818

Units: ug/Kg

Instrument ID: Varian Pest 1

Lab File ID: N/A

Initial Weight/Volume: 30.10 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	RL
Aldrin	ND		2.0
Dieldrin	ND		2.0
Endrin aldehyde	ND		2.0
Endrin	ND		2.0
Endrin ketone	ND		2.0
Heptachlor	ND		2.0
Heptachlor epoxide	ND		2.0
4,4'-DDT	ND		2.0
4,4'-DDE	ND		2.0
4,4'-DDD	ND		2.0
Endosulfan I	ND		2.0
Endosulfan II	ND		2.0
alpha-BHC	ND		2.0
beta-BHC	ND		2.0
gamma-BHC (Lindane)	ND		2.0
delta-BHC	ND		2.0
Endosulfan sulfate	ND		2.0
Methoxychlor	ND		2.0
Toxaphene	ND		40
Chlordane (technical)	ND		40
alpha-Chlordane	ND		2.0
gamma-Chlordane	ND		2.0
Surrogate	% Rec	Acceptance Limits	
Tetrachloro-m-xylene	100	50 - 125	
DCB Decachlorobiphenyl	84	46 - 142	

Client: ERRG Job Number: 720-10340-1

Lab Control Spike/ Method: 8081A
Lab Control Spike Duplicate Recovery Report - Batch: 720-24818 Preparation: 3550B

LCS Lab Sample ID: LCS 720-24818/2-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/16/2007 1312 Date Prepared: 08/15/2007 1145 Analysis Batch: 720-24907 Prep Batch: 720-24818

Units: ug/Kg

Instrument ID: Varian Pest 1

Lab File ID: N/A

Initial Weight/Volume: 30.23 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-24818/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/16/2007 1334 Date Prepared: 08/15/2007 1145 Analysis Batch: 720-24907 Prep Batch: 720-24818

Units: ug/Kg

Instrument ID: Varian Pest 1

Lab File ID: N/A

Initial Weight/Volume: 30.32 g Final Weight/Volume: 10 mL

Injection Volume:

		% Rec.			
Analyte	LCS	LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qual
Aldrin	85	84	37 - 136	1	35
Dieldrin	83	85	58 - 135	2	35
Endrin	82	85	58 - 134	4	35
Heptachlor	87	85	40 - 136	2	35
4,4'-DDT	82	84	55 - 132	2	35
gamma-BHC (Lindane)	86	83	37 - 137	4	35
Surrogate		LCS % Rec	LCSD %	Rec	Acceptance Limits
Tetrachloro-m-xylene		83	82		50 - 125
DCB Decachlorobiphenyl		89	91		46 - 142

Client: ERRG Job Number: 720-10340-1

Method Blank - Batch: 720-24816

Method: 8082 Preparation: 3550B

Lab Sample ID: MB 720-24816/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/16/2007 1224 Date Prepared: 08/15/2007 1142 Analysis Batch: 720-24902

Prep Batch: 720-24816

Units: ug/Kg

Instrument ID: Agilent PCB 2

Lab File ID: N/A

Initial Weight/Volume: 30.48 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		49
PCB-1221	ND		49
PCB-1232	ND		49
PCB-1242	ND		49
PCB-1248	ND		49
PCB-1254	ND		49
PCB-1260	ND		49
Surrogate	% Rec	Acceptance Limits	
Tetrachloro-m-xylene	83	46 - 111	
DCB Decachlorobiphenyl	83	34 - 106	

30.11 g

Client: ERRG Job Number: 720-10340-1

Lab Control Spike/ Method: 8082
Lab Control Spike Duplicate Recovery Report - Batch: 720-24816 Preparation: 3550B

LCS Lab Sample ID: LCS 720-24816/2-A Analysis Batch: 720-24902 Instrument ID: Agilent PCB 2

Client Matrix: Solid Prep Batch: 720-24816 Lab File ID: N/A

Dilution: 1.0 Units: ug/Kg Initial Weight/Volume:

Date Analyzed: 08/16/2007 1243 Final Weight/Volume: 10 mL

Date Prepared: 08/15/2007 1142 Injection Volume:

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-24816/3-A Analysis Batch: 720-24902 Instrument ID: Agilent PCB 2

Client Matrix: Solid Prep Batch: 720-24816 Lab File ID: N/A

Dilution: 1.0 Units: ug/Kg Initial Weight/Volume: 30.46 g
Date Analyzed: 08/16/2007 1303 Final Weight/Volume: 10 mL

Date Prepared: 08/15/2007 1142 Injection Volume:

Column ID: PRIMARY

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit PCB-1016 86 86 66 - 116 1 21 PCB-1260 57 - 110 2 24 83 86 Surrogate LCS % Rec LCSD % Rec Acceptance Limits Tetrachloro-m-xylene 86 86 46 - 111 DCB Decachlorobiphenyl 89 93 34 - 106

Client: ERRG Job Number: 720-10340-1

Method Blank - Batch: 720-24817

Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-24817/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/15/2007 1948 Date Prepared: 08/15/2007 1144 Analysis Batch: 720-24798 Prep Batch: 720-24817

Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 of

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

Analyte	Result Qual	RL
Arsenic	ND	1.0
Barium	ND	1.0
Cadmium	ND	0.50
Chromium	ND	1.0
Lead	ND	1.0
Selenium	ND	2.0
Silver	ND	1.0
Zinc	ND	1.0

LCS-Standard Reference Material - Batch: 720-24817

Method: 6010B Preparation: 3050B

Lab Sample ID: LCSSRM 720-24817/25-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/15/2007 2128 Date Prepared: 08/15/2007 1144 Analysis Batch: 720-24798 Prep Batch: 720-24817

Units: mg/Kg

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

Analyte Spike Amount Result % Rec. Limit Qual Arsenic 22.7 20.7 91 72 - 128 Barium 145 126 87 80 - 120 Cadmium 42.2 37.5 89 80 - 120 Chromium 246 225 91 80 - 120 Lead 44.1 38.1 86 75 - 126 Selenium 80 - 120 165 156 94 Silver 79.5 93 72 - 127 73.7 Zinc 44.0 36.5 83 75 - 125

Client: ERRG Job Number: 720-10340-1

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-24817 Preparation: 3050B

LCS Lab Sample ID: LCS 720-24817/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/15/2007 1952 Date Prepared: 08/15/2007 1144 Analysis Batch: 720-24798
Prep Batch: 720-24817

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-24817/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/15/2007 1955 Date Prepared: 08/15/2007 1144 Analysis Batch: 720-24798 Instrument ID: Varian ICP

Prep Batch: 720-24817 Lab File ID: N/A

	%	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	92	96	80 - 120	3	20		
Barium	94	98	80 - 120	4	20		
Cadmium	92	96	80 - 120	4	20		
Chromium	94	97	80 - 120	3	20		
Lead	91	94	80 - 120	3	20		
Selenium	97	101	80 - 120	4	20		
Silver	95	98	80 - 120	3	20		
Zinc	93	97	80 - 120	4	20		

Client: ERRG Job Number: 720-10340-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-24817 Method: 6010B Preparation: 3050B

MS Lab Sample ID:

720-10298-A-25-E MS

Analysis Batch: 720-24798

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-24817

Lab File ID: N/A

Dilution:

1.0

Initial Weight/Volume: 1.01 g

Date Analyzed: Date Prepared: 08/15/2007 1959 08/15/2007 1144 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10298-A-25-F MSD Analysis Batch: 720-24798

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-24817

Lab File ID: N/A

Dilution:

Date Prepared:

1.0

Initial Weight/Volume: 1.01 g Final Weight/Volume: 50 mL

Date Analyzed: 08/15/2007 2003

08/15/2007 1144

% Rec. MSD RPD MS Qual MSD Qual Analyte MS Limit **RPD Limit** 75 - 125 Arsenic 87 20 91 5 Barium 85 89 75 - 125 3 20 Cadmium 83 87 75 - 125 5 20 Chromium 88 92 75 - 125 4 20 75 - 125 5 Lead 82 86 20 5 96 75 - 125 20 Selenium 91 Silver 91 95 75 - 125 4 20 Zinc 75 - 125 4 20 85 90

Client: ERRG Job Number: 720-10340-1

Method Blank - Batch: 720-24833 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-24833/1-A Analysis Batch: 720-24863 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-24833 Lab File ID: N/A

Units: mg/Kg Dilution: 1.0 Initial Weight/Volume: 1 g Date Analyzed: 08/15/2007 2003 Final Weight/Volume: 50 mL Date Prepared: 08/15/2007 1359

Result Qual RL Analyte Mercury ND 0.050

Lab Control Spike/ Method: 7471A

Lab Control Spike Duplicate Recovery Report - Batch: 720-24833 Preparation: 7471A

LCS Lab Sample ID: LCS 720-24833/2-A Instrument ID: FIMS 100 Analysis Batch: 720-24863

Client Matrix: Solid Prep Batch: 720-24833 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

08/15/2007 2004 Final Weight/Volume: Date Analyzed: 50 mL 08/15/2007 1359 Date Prepared:

LCSD Lab Sample ID: LCSD 720-24833/3-A Analysis Batch: 720-24863 Instrument ID: **FIMS 100**

Client Matrix: Solid Prep Batch: 720-24833 Lab File ID: N/A Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

08/15/2007 2005 Final Weight/Volume: 50 mL Date Analyzed: Date Prepared: 08/15/2007 1359

99

% Rec. Analyte LCS LCSD Limit **RPD** RPD Limit LCS Qual LCSD Qual

85 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

99

Mercury

Client: ERRG Job Number: 720-10340-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-24833

Method: 7471A Preparation: 7471A

MS Lab Sample ID: 720-10298-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/15/2007 2006 Date Prepared: 08/15/2007 1359

720-10298-A-25-H MS Analysis Batch: 720-24863 Instrument ID: FIMS 100 Solid Prep Batch: 720-24833 Lab File ID: N/A

Initial Weight/Volume: 0.99 g Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10298-A-25-I MSD Analysis Batch: 720-24863

Client Matrix: Solid

Dilution: 1.0
Date Analyzed: 08/15/2

Date Analyzed: 08/15/2007 2008 Date Prepared: 08/15/2007 1359 Analysis Batch: 720-24863 Instrument ID: FIMS 100 Prep Batch: 720-24833 Lab File ID: N/A

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

<u>% Rec.</u>

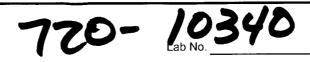
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Mercury	91	89	85 - 115	3	20	



Engineering / Remediation Resources Group, Inc. 251 Kearney St

San Francisco, CA 94108

Phone: (925) 969-0750



Page 1 <u>of **2**</u>

	Fax: (925) 96	9-0751																					0/0	70G		1
Project Contact (Ha	rdcopy or PD	F To):	Califor	nia EDF	Repo	rt?		Yes		No	T		С	haiı	า-of	-Cu	sto	dy	Rec	ord a	and A	naly	ysis F	Reque	st	
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Project Number: 27-128	Phase #	/ Task #	1	RI		5/											д НОГД				2 hr/ 84 hr 72 hr/STD					
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PT-LF-12-WS	-11D	8/14/07	1416	X						×		X	X	Χ	X	X	X	X					1			٩
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Engineering / Remediation Resources Group, Inc.

251 Kearney St San Francisco, CA 94108

Phone: (925) 969-0750 Fax: (925) 969-0751



Page 2 of 2

106704

Project Contact (Ha	rdcopy or PD	F To):	Califo	California EDF Report?				No		Chain-of-Custody Record and Analysis Request]							
Laboratory / Addres	ss:		Electronic		•							-		Α	nal	vsis	Re	que	est		TAT				
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Project Name: Presidio Trust Land	fills 1 and 2		Project Ad	dress:	31	J	5						le le				act and				ır/ 72 ()	ners			
Project Manager:		Sam	pling		Cor	ntair	ner			Ma	atrix		otor				extract				48 hr wk)	ntai		Only	
				402.								with BTEX	TPH diesel and motor			RCRA 8 metals	STLC and TCLP	50			12 hri <u>(24 h</u>)/ 48 hr/ 72 hr/STD wk)	Number of Containers	nts	For Lab Use C	
Sample				jar						<u>_</u>		gas	dies	sides		A 8 r	anc	127			hrk	ıber	ıme	Lab	
Designation		Date	Time							Water	Soil Air	1 —	I H	Pesticides	PCBs	RCR,	STLC	Ashestos			12	Num	Comments	For	42
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aldis Uti	reti		8/14/07	1630	Composit WS96 A-D into one sample, and WS07 A-D into one samp						re samp	e.													
Relinquished by:			Date		Recei	ved	by:					STLC nad TCLP extract and HOLD Composite WS 11A-D into one sample, WS-12A-D into on					to one								
								_				sample, WS 13A-D into one sample													
Relinquished by:			Date	Time			-		-		Bill to: Engineering / Remediation Resources Group, Inc.					1									
			8-15-07	925	طر	bn	-Vu	ull	len	1	AS	185 Mason Circle, Suite A Concord, CA 94520 2.6													

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10340-1

Login Number: 10340

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

TestAmerica San Francisco (fka STL) Project Manager 1220 Quarry Ln Pleasanton, CA 94566-4756					Client ID: Report Number Date Received Date Analyzed Date Printed: First Reported	08/16/ 08/16/ 08/16/	707 707 707
Job ID/Site: 72002926 - AIS-LF 1 & 2					FASI Job ID:	2595	. 2
Date(s) Collected: 08/14/2007					Total Samples Total Samples		
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
WS-11-A-D Layer: Brown Soil	10671477		ND				
Total Composite Values of Fibrous Con	nponents: A	Asbestos (ND)					
WS-12-A-D Layer: Brown Soil	10671478		ND				
Total Composite Values of Fibrous Con	nponents: A	Asbestos (ND)					
WS-13-A-D Layer: Brown Soil	10671479		ND				
Total Composite Values of Fibrous Con	nponents: A	Asbestos (ND)					



James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'. Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or

copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



ANALYTICAL REPORT

Job Number: 720-10340-2

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Mar

Dimple Sharma Project Manager I

dimple.sharma@testamericainc.com 08/20/2007

Job Narrative 720-J10340-2

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 24991 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10340-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10340-5	WS-11 A-D					
STLC Citrate Lead		370	5.0	mg/L	6010B	
TCLP Lead		1.7	0.50	mg/L	6010B	
720-10340-10	WS-12 A-D					
STLC Citrate Lead		1300	5.0	mg/L	6010B	
TCLP Lead		2.2	0.50	mg/L	6010B	
720-10340-15	WS-13 A-D					
STLC Citrate Lead		360	5.0	mg/L	6010B	
<i>TCLP</i> Lead		1.8	0.50	mg/L	6010B	

METHOD SUMMARY

Client: ERRG Job Number: 720-10340-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10340-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10340-5	WS-11 A-D	Solid	08/14/2007 1410	08/15/2007 0925
720-10340-10	WS-12 A-D	Solid	08/14/2007 1400	08/15/2007 0925
720-10340-15	WS-13 A-D	Solid	08/14/2007 1350	08/15/2007 0925

Client: ERRG Job Number: 720-10340-2

Client Sample ID: WS-11 A-D

 Lab Sample ID:
 720-10340-5
 Date Sampled:
 08/14/2007 1410

 Client Matrix:
 Solid
 Date Received:
 08/15/2007 0925

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-24938 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-24933 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-24888 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/17/2007 1215 Date Prepared: 08/17/2007 0746 Date Leached: 08/16/2007 1221

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 1.7
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25009Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-24991Lab File ID:N/ADilution:1.0Leachate Batch: 720-24953Initial Weight/Volume:5 mL

Date Analyzed: 08/20/2007 0938

Date Prepared: 08/20/2007 0800

Date Leached: 08/17/2007 1127

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 370
 5.0

 Chromium
 ND
 5.0

Client: ERRG Job Number: 720-10340-2

Client Sample ID: WS-12 A-D

 Lab Sample ID:
 720-10340-10
 Date Sampled:
 08/14/2007 1400

 Client Matrix:
 Solid
 Date Received:
 08/15/2007 0925

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Method: Analysis Batch: 720-24938 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-24933 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-24888 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/17/2007 1219 Date Prepared: 08/17/2007 0746 Date Leached: 08/16/2007 1221

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 2.2
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: 6010B Analysis Batch: 720-25009 Varian ICP Instrument ID: Preparation: 3005A Prep Batch: 720-24991 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-24953 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/20/2007 0949
Date Prepared: 08/20/2007 0800
Date Leached: 08/17/2007 1127

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 1300
 5.0

 Chromium
 ND
 5.0

Client: ERRG Job Number: 720-10340-2

Client Sample ID: WS-13 A-D

 Lab Sample ID:
 720-10340-15
 Date Sampled:
 08/14/2007 1350

 Client Matrix:
 Solid
 Date Received:
 08/15/2007 0925

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Method: Analysis Batch: 720-24938 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-24933 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-24888 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/17/2007 1229
Date Prepared: 08/17/2007 0746
Date Leached: 08/16/2007 1221

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 1.8
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25009Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-24991Lab File ID:N/ADilution:1.0Leachate Batch: 720-24953Initial Weight/Volume:5 mL

Date Analyzed: 08/20/2007 0942
Date Prepared: 08/20/2007 0800
Date Leached: 08/17/2007 1127

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 360
 5.0

 Chromium
 ND
 5.0

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10340-2

Lab Section	Qualifier	Description
Metals		
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ERRG Job Number: 720-10340-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-24888					
MB 720-24888/1-B	Method Blank	Р	Solid	1311	
720-10340-5	WS-11 A-D	Р	Solid	1311	
720-10340-10	WS-12 A-D	Р	Solid	1311	
720-10340-15	WS-13 A-D	Р	Solid	1311	
Prep Batch: 720-24933					
LCS 720-24933/2-A	Lab Control Spike	T	Water	3010A	
LCSD 720-24933/3-A	Lab Control Spike Duplicate	T	Water	3010A	
MB 720-24888/1-B	Method Blank	Р	Solid	3010A	720-24888
720-10282-A-5-P MS	Matrix Spike	Р	Solid	3010A	
720-10282-A-5-Q MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10340-5	WS-11 A-D	Р	Solid	3010A	720-24888
720-10340-10	WS-12 A-D	Р	Solid	3010A	720-24888
720-10340-15	WS-13 A-D	Р	Solid	3010A	720-24888
Analysis Batch:720-24938					
MB 720-24888/1-B	Method Blank	Р	Solid	6010B	720-24933
LCS 720-24933/2-A	Lab Control Spike	Ť	Water	6010B	720-24933
LCSD 720-24933/3-A	Lab Control Spike Duplicate	Т	Water	6010B	720-24933
720-10282-A-5-P MS	Matrix Spike	Р	Solid	6010B	720-24933
720-10282-A-5-Q MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-24933
720-10340-5	WS-11 A-D	Р	Solid	6010B	720-24933
720-10340-10	WS-12 A-D	Р	Solid	6010B	720-24933
720-10340-15	WS-13 A-D	Р	Solid	6010B	720-24933
Prep Batch: 720-24953					
MB 720-24953/1-B	Method Blank	С	Solid	CA WET Citrate	
720-10340-5	WS-11 A-D	C	Solid	CA WET Citrate	
720-10340-10	WS-12 A-D	C	Solid	CA WET Citrate	
720-10340-15	WS-13 A-D	C	Solid	CA WET Citrate	
Prep Batch: 720-24991					
LCS 720-24991/2-A	Lab Control Spike	R	Water	3005A	
LCSD 720-24991/3-A	Lab Control Spike Duplicate	R	Water	3005A	
MB 720-24953/1-B	Method Blank	C	Solid	3005A	720-24953
720-10235-A-5-N MS	Matrix Spike	Ċ	Solid	3005A	
720-10235-A-5-O MSD	Matrix Spike Duplicate	Č	Solid	3005A	
720-10340-5	WS-11 A-D	Ċ	Solid	3005A	720-24953
720-10340-10	WS-12 A-D	Č	Solid	3005A	720-24953
		Ċ			

Client: ERRG Job Number: 720-10340-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:720-2	5009				
MB 720-24953/1-B	Method Blank	С	Solid	6010B	720-24991
LCS 720-24991/2-A	Lab Control Spike	R	Water	6010B	720-24991
LCSD 720-24991/3-A	Lab Control Spike Duplicate	R	Water	6010B	720-24991
720-10235-A-5-N MS	Matrix Spike	С	Solid	6010B	720-24991
720-10235-A-5-O MSD	Matrix Spike Duplicate	С	Solid	6010B	720-24991
720-10340-5	WS-11 A-D	С	Solid	6010B	720-24991
720-10340-10	WS-12 A-D	С	Solid	6010B	720-24991
720-10340-15	WS-13 A-D	С	Solid	6010B	720-24991

Report Basis

C = STLC Citrate

P = TCLP

R = Total Recoverable

T = Total

Client: ERRG Job Number: 720-10340-2

Method Blank - Batch: 720-24933

Method: 6010B Preparation: 3010A

TCLP

Lab Sample ID: MB 720-24888/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/17/2007 1108 Date Prepared: 08/17/2007 0746

Date Leached: 08/16/2007 1221

Analysis Batch: 720-24938 Prep Batch: 720-24933

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-24888

Result RL Analyte Qual Lead ND 0.50 Chromium ND 0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-24933

Method: 6010B Preparation: 3010A

LCS Lab Sample ID: LCS 720-24933/2-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 08/17/2007 1111 Date Prepared: 08/17/2007 0746 Analysis Batch: 720-24938

Prep Batch: 720-24933

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-24933/3-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 08/17/2007 1115 Date Prepared: 08/17/2007 0746 Analysis Batch: 720-24938 Prep Batch: 720-24933

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	100	99	80 - 120	0	20		
Chromium	99	99	80 - 120	1	20		

Client: ERRG Job Number: 720-10340-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-24933

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: 720-10282-A-5-P MS

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/17/2007 1119

Date Prepared: 08/17/2007 0746

Analysis Batch: 720-24938

Prep Batch: 720-24933

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10282-A-5-Q MSD

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: 08/17/2007 1123 Date Prepared: 08/17/2007 0746 Analysis Batch: 720-24938 Instrument ID: Varian ICP Prep Batch: 720-24933 Lab File ID: N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

% Rec. MS MSD Limit RPD **RPD Limit** MS Qual MSD Qual Analyte Lead 75 - 125 97 97 20 0 Chromium 98 98 75 - 125 0 20

5.0

Client: ERRG Job Number: 720-10340-2

Method Blank - Batch: 720-24991

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Lab File ID: N/A

Lab Sample ID: MB 720-24953/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/20/2007 0916 Date Prepared: 08/20/2007 0800

Date Leached: 08/17/2007 1127

Analysis Batch: 720-25009 Prep Batch: 720-24991

Units: mg/L

Leachate Batch: 720-24953

ND

RL Result Qual ND 5.0

Lab Control Spike/

Analyte

Chromium

Lead

Lab Control Spike Duplicate Recovery Report - Batch: 720-24991

Method: 6010B Preparation: 3005A **Total Recoverable**

LCS Lab Sample ID: LCS 720-24991/2-A

Client Matrix: Dilution:

Water

Date Analyzed: 08/20/2007 0800

Date Prepared:

1.0

08/20/2007 0920

Analysis Batch: 720-25009

Prep Batch: 720-24991

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-24991/3-A

Client Matrix:

Water

Dilution: 1.0

Date Analyzed: 08/20/2007 0924 Date Prepared: 08/20/2007 0800 Analysis Batch: 720-25009

Prep Batch: 720-24991

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec. RPD RPD Limit LCS Qual LCSD Qual Analyte LCS LCSD Limit Lead 104 104 80 - 120 1 20 Chromium 106 106 80 - 120 20 1

Client: ERRG Job Number: 720-10340-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-24991

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID:

720-10235-A-5-N MS

Analysis Batch: 720-25009

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-24991

Lab File ID: N/A

Dilution: Date Analyzed: 1.0

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Prepared:

08/20/2007 0927 08/20/2007 0800

MSD Lab Sample ID: 720-10235-A-5-O MSD Analysis Batch: 720-25009

Client Matrix:

Solid

Instrument ID: Varian ICP Lab File ID: N/A

Prep Batch: 720-24991

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

1.0 Dilution:

Date Analyzed: 08/20/2007 0931 Date Prepared: 08/20/2007 0800

% Rec

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qu	al MSD Qual
Lead	-714	-712	80 - 120	1	20	4	4
Chromium	52	52	80 - 120	0	20	F	F

ERRG

Engineering / Remediation Resources Group, Inc. 251 Kearney St

San Francisco, CA 94108

Phone: (925) 969-0750



Page 1 of 2

10/0706 Fax: (925) 969-0751 Chain-of-Custody Record and Analysis Request Project Contact (Hardcopy or PDF To): California EDF Report? No Yes TAT **Analysis Request** Laboratory / Address: Electronic Deliverables To (Email Address): Test America Tyson.Appel@errg.com Phone No.: Fax No.: Sampler: 48 hr/ 72 hr/STD HOLD Project Number: Phase # / Task # 27-128 and Number of Containers Project Address: Project Name: <u>.</u> extract Presidio Trust Land fills 1 and 2 TPH diesel and motor For Lab Use Only Matrix Sampling Container TPH gas with BTEX Project Manager: STLC and TCLP hr! 24 hg RCRA 8 metals Comments 4-02 jur Sample Water Soil Designation Time Date 8/14/07 PT-LF-12-WS-11A 1410 X X X X ဖ Ċ X PT- LF-12-WS-11B X X 1412 X X X PT-17-12-WS-11C X PT-LF-12-WS-11D X X. 乂 X 1416 1400 X PT-LF-12-WS-12A X X PT-LF-12-WS-12B 1402 X 1404 X X PT-LF-12-WS-12C X X PT-LF-12-WS-12D 1406 X 1350 X PT- LF- 12 - WS - 13A X 1352 PT-LF-12-WS-13B Relinquished by: Received by: Date Time Remarks: 1630 STLC nad TCLP extract and HOLD Date Received by: Relinguished by: Time composite WSIIA - D into one sample; WS 12A - D into one sample, and WS 13A-Dinto one sumple Received by Laboratory: _ Bill to: Engineering / Remediation Resources Group, Inc. Relinguished by: Date 185 Mason Circle, Suite A Concord, CA 94520 2.8



Engineering / Remediation Resources Group, Inc.

251 Kearney St San Francisco, CA 94108

Phone: (925) 969-0750 Fax: (925) 969-0751



Page 2 of 2

106706

Project Contact (Ha	rdcopy or PD	F To):	Califo	rnia EDI	Rep	ort?	Γ	Yes	Г	□No		Chain-of-Custody Record and Analysis Request				st									
Laboratory / Addres	ss:		Electronic Deliverables To (Email Address):					Analysis Request					ТАТ		-										
Test America																	1								
Phone No.:	Fax No.:		Sampler :	Tyson.Appel@errg.com Sampler: SCK														D (1							
Project Number:	Phase #	/ Task #					<u> </u>										HOLD					STI			
27-128						M 4					Ī		İ				Ĭ					hr			
Project Name: Presidio Trust Land	fills 1 and 2		Project Ad	dress:	1		7						lio				act and					48 hr/ 72 hr/STD wk)	iners		
Project Manager:		Sam	pling		Cor	ntaine	r		N	/latr	ix	EX	motor oil				extract					48 ×	ntai		Only
				402.								TPH gas with BTEX	TPH diesel and r			RCRA 8 metals	STLC and TCLP	X				12 hr/24 h)/	Number of Containers	ıts	For Lab Use Only
Sample		1		jar					l io			gas v	diese	Pesticides	,,	A 8 n	and	Asbestos				hr/(ıber	Comments	Lab
Designation		Date	Time						Water	Soil	Air	ТРН	TPT	Pesti	PCBs	RCR	STL(五				12	Nun	Con	For
PT-LF-12-WS	-130	8/14/07	1354	X						X		X	×	X	X	X	X	X					1		
PT- LF- 12-W		8/14/07	1356	X						X		X	X	Х	X	X	X	X							
						<u> </u>																			

	-																					,			
Relinquished by:	$\overline{\Omega}$		Date	Time	Recei	ved by	:						Rem	narks	:										
alexix Uti	reti		8/14/07	1630									Composit WS06 A-D into one sample, and WS07 A-D Into one sample.			e.									
Relinquished by:			Date		Recei	ved by	•						STL.	C nad	d TCI	_P ex WS	tract	and D i	HOL Nto a	D THE	SOM	nple, v	vs-12,	A-Dir	to one
												sample, WS-13A-D into one sample													
Relinquished by:			Date	Time				-					Bill	to:	Éng	inee	ring /	Ren	nedia	tion I	Reso	ources (Group, I	nc.	
			8-15-07	925	J2	un	Mu	llu	^	TA	SF	185 Mason Circle, Suite A Concord, CA 94520													

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10340-2

Login Number: 10340

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10373-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I

Mhar

dimple.sharma@testamericainc.com

08/20/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10373-1

Comments

No additional comments.

Receipt

Plastic 500ml used for organic analyses.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): . The container labels lists PTLF 12 WS 18A-D. The COC lists PTLF 12W 18A-A.

Logged using container label ID, consistant with other sample ID's.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 24929 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10373-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10373-1	PTLF 12WS 14A-D				
Diesel Range Organ	nics [C10-C28]	26	1.0	mg/Kg	8015B
Motor Oil Range Org	ganics [C24-C36]	140	50	mg/Kg	8015B
Dieldrin		13	10	ug/Kg	8081A
4,4'-DDT		25	10	ug/Kg	8081A
4,4'-DDE		12	10	ug/Kg	8081A
Arsenic		9.4	0.98	mg/Kg	6010B
Barium		240	0.98	mg/Kg	6010B
Cadmium		1.9	0.49	mg/Kg	6010B
Chromium		120	0.98	mg/Kg	6010B
Lead		710	0.98	mg/Kg	6010B
Silver		1.8	0.98	mg/Kg	6010B
Zinc		1100	0.98	mg/Kg	6010B
Mercury		0.24	0.049	mg/Kg	7471A
720-10373-2	PTLF 12WS 15A-D				
Diesel Range Organ	nics [C10-C28]	18	0.99	mg/Kg	8015B
Motor Oil Range Org		100	50	mg/Kg	8015B
4,4'-DDT		18	10	ug/Kg	8081A
Arsenic		8.3	1.0	mg/Kg	6010B
Barium		430	1.0	mg/Kg	6010B
Cadmium		1.7	0.51	mg/Kg	6010B
Chromium		130	1.0	mg/Kg	6010B
Lead		790	1.0	mg/Kg	6010B
Silver		5.2	1.0	mg/Kg	6010B
Zinc		950	1.0	mg/Kg	6010B
Mercury		0.71	0.050	mg/Kg	7471A
720-10373-3	PTLF 12WS 16A-D				
Diesel Range Organ		28	1.0	mg/Kg	8015B
Motor Oil Range Organ		150	50	mg/Kg	8015B
4,4'-DDE	gaoo [02 i 000]	20	10	ug/Kg	8081A
PCB-1254		53	50	ug/Kg	8082
Arsenic		8.5	0.97	mg/Kg	6010B
Barium		470	0.97	mg/Kg	6010B
Cadmium		1.8	0.49	mg/Kg	6010B
Chromium		160	0.97	mg/Kg	6010B
Lead		3900	9.7	mg/Kg	6010B
Selenium		2.2	1.9	mg/Kg	6010B
Silver		8.6	0.97	mg/Kg	6010B
Zinc		2600	9.7	mg/Kg	6010B
Mercury		0.50	0.051	mg/Kg	7471A

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10373-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10373-4	PTLF 12WS 17A-D					
Diesel Range Orga	nics [C10-C28]	7.4	1.0	mg/Kg	8015B	
Motor Oil Range O	rganics [C24-C36]	50	50	mg/Kg	8015B	
4,4'-DDT		17	10	ug/Kg	8081A	
Arsenic		5.2	0.97	mg/Kg	6010B	
Barium		350	0.97	mg/Kg	6010B	
Cadmium		1.4	0.49	mg/Kg	6010B	
Chromium		160	0.97	mg/Kg	6010B	
Lead		10000	9.7	mg/Kg	6010B	
Silver		5.1	0.97	mg/Kg	6010B	
Zinc		840	0.97	mg/Kg	6010B	
Mercury		0.90	0.051	mg/Kg	7471A	
720-10373-5	PTLF 12WS 18A-D					
Diesel Range Orga	nics [C10-C28]	16	1.0	mg/Kg	8015B	
Motor Oil Range O		100	50	mg/Kg	8015B	
Dieldrin		11	9.9	ug/Kg	8081A	
4,4'-DDT		19	9.9	ug/Kg	8081A	
PCB-1254		64	50	ug/Kg	8082	
Arsenic		4.9	0.98	mg/Kg	6010B	
Barium		310	0.98	mg/Kg	6010B	
Cadmium		0.71	0.49	mg/Kg	6010B	
Chromium		100	0.98	mg/Kg	6010B	
Lead		600	0.98	mg/Kg	6010B	
Silver		2.3	0.98	mg/Kg	6010B	
Zinc		1900	0.98	mg/Kg	6010B	
Mercury		0.34	0.050	mg/Kg	7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10373-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS Purge and Trap for Solids	TAL SF TAL SF	SW846 8260B	SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B
Organochlorine Pesticides by Gas Chromatography Ultrasonic Extraction	TAL SF TAL SF	SW846 8081A	SW846 3550B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography Ultrasonic Extraction	TAL SF TAL SF	SW846 8082	SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10373-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10373-1	PTLF 12WS 14A-D	Solid	08/16/2007 1500	08/16/2007 1855
720-10373-2	PTLF 12WS 15A-D	Solid	08/16/2007 1515	08/16/2007 1855
720-10373-3	PTLF 12WS 16A-D	Solid	08/16/2007 1525	08/16/2007 1855
720-10373-4	PTLF 12WS 17A-D	Solid	08/16/2007 1545	08/16/2007 1855
720-10373-5	PTLF 12WS 18A-D	Solid	08/16/2007 1535	08/16/2007 1855

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 14A-D

 Lab Sample ID:
 720-10373-1
 Date Sampled:
 08/16/2007
 1500

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-24974 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-24928 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.22 g

Date Analyzed: 08/17/2007 1312 Final Weight/Volume: 10.00 mL

Date Prepared: 08/17/2007 0451

Analyte E	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0048
Ethylbenzene		ND		0.0048
Toluene		ND		0.0048
Xylenes, Total		ND		0.0096
Gasoline Range Organics (GRO)-CS	5-C12	ND		0.24
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		95		70 - 130
1,2-Dichloroethane-d4 (Surr)		106		60 - 140

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 15A-D

 Lab Sample ID:
 720-10373-2
 Date Sampled:
 08/16/2007
 1515

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-24974 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-24928 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.62 g

Date Analyzed: 08/17/2007 1334 Final Weight/Volume: 10.00 mL

Date Prepared: 08/17/2007 0451

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0044
Ethylbenzene		ND		0.0044
Toluene		ND		0.0044
Xylenes, Total		ND		0.0089
Gasoline Range Organics (GRO)	-C5-C12	ND		0.22
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		95		70 - 130
1,2-Dichloroethane-d4 (Surr)		108		60 - 140

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 16A-D

 Lab Sample ID:
 720-10373-3
 Date Sampled:
 08/16/2007
 1525

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-24974 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-24928 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.25 g

Date Analyzed: 08/17/2007 1634 Final Weight/Volume: 10.00 mL Date Prepared: 08/17/2007 0451

DryWt Corrected: N Result (mg/Kg) Qualifier RLAnalyte Benzene ND 0.0048 Ethylbenzene ND 0.0048 Toluene ND 0.0048 Xylenes, Total 0.0095 ND Gasoline Range Organics (GRO)-C5-C12 ND 0.24 %Rec Acceptance Limits Surrogate Toluene-d8 (Surr) 97 70 - 130 1,2-Dichloroethane-d4 (Surr) 100 60 - 140

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 17A-D

 Lab Sample ID:
 720-10373-4
 Date Sampled:
 08/16/2007
 1545

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-24974 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-24928 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.23 g

Date Analyzed: 08/17/2007 1420 Final Weight/Volume: 10.00 mL Date Prepared: 08/17/2007 0451

Result (mg/Kg) Qualifier RLAnalyte DryWt Corrected: N Benzene ND 0.0048 Ethylbenzene ND 0.0048 Toluene ND 0.0048 Xylenes, Total 0.0096 ND Gasoline Range Organics (GRO)-C5-C12 ND 0.24 %Rec Acceptance Limits Surrogate Toluene-d8 (Surr) 96 70 - 130 1,2-Dichloroethane-d4 (Surr) 105 60 - 140

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 18A-D

 Lab Sample ID:
 720-10373-5
 Date Sampled:
 08/16/2007
 1535

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-24984 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-24983 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.11 g

Date Analyzed: 08/19/2007 1156 Final Weight/Volume: 10 mL Date Prepared: 08/19/2007 0903

Result (mg/Kg) Qualifier RLAnalyte DryWt Corrected: N Benzene ND 0.0049 Ethylbenzene ND 0.0049 Toluene ND 0.0049 Xylenes, Total ND 0.0098

Gasoline Range Organics (GRO)-C5-C12 ND 0.24

Surrogate %Rec Acceptance Limits

Toluene-d8 (Surr) 99 70 - 130

1,2-Dichloroethane-d4 (Surr) 100 60 - 140

Client: ERRG Job Number: 720-10373-1

PTLF 12WS 14A-D Client Sample ID:

Lab Sample ID: 720-10373-1 Date Sampled: 08/16/2007 1500 Client Matrix: Solid Date Received: 08/16/2007 1855

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

HP DRO5 Method: 8015B Analysis Batch: 720-24936 Instrument ID: Preparation: 3550B Prep Batch: 720-24883 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume:

30.09 g Date Analyzed: 08/19/2007 2037 Final Weight/Volume: 5 mL

Date Prepared: 08/16/2007 1114 Injection Volume:

> Column ID: **PRIMARY**

DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 26 1.0 Motor Oil Range Organics [C24-C36] 140 50

%Rec Acceptance Limits Surrogate 46 - 105 p-Terphenyl 61

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 15A-D

Lab Sample ID: 720-10373-2 Date Sampled: 08/16/2007 1515 Client Matrix: Solid Date Received: 08/16/2007 1855

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

HP DRO5 Method: 8015B Analysis Batch: 720-24936 Instrument ID: Preparation: 3550B Prep Batch: 720-24883 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume:

30.21 g Date Analyzed: 08/19/2007 2103 Final Weight/Volume: 5 mL

Date Prepared: 08/16/2007 1114 Injection Volume:

> Column ID: **PRIMARY**

DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RLDiesel Range Organics [C10-C28] 18 0.99 Motor Oil Range Organics [C24-C36] 100 50

%Rec Acceptance Limits Surrogate 46 - 105 p-Terphenyl 65

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 16A-D

 Lab Sample ID:
 720-10373-3
 Date Sampled:
 08/16/2007 1525

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B Analysis Batch: 720-24936 Instrument ID: HP DRO5
Preparation: 3550B Prep Batch: 720-24883 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.02 g

Date Analyzed: 08/19/2007 2130 Final Weight/Volume: 5 mL

Date Prepared: 08/16/2007 1114 Injection Volume:

Column ID: PRIMARY

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Diesel Range Organics [C10-C28] 28 1.0

Motor Oil Range Organics [C24-C36] 150 50

Surrogate%RecAcceptance Limitsp-Terphenyl5946 - 105

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 17A-D

 Lab Sample ID:
 720-10373-4
 Date Sampled:
 08/16/2007 1545

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B Analysis Batch: 720-24936 Instrument ID: HP DRO5

Preparation: 3550B Prep Batch: 720-24883 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.00 g
Date Analyzed: 08/19/2007 2157 Final Weight/Volume: 5 mL

Date Prepared: 08/16/2007 1114 Injection Volume:

Column ID: PRIMARY

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL
Diesel Range Organics [C10-C28] 7.4 1.0
Motor Oil Range Organics [C24-C36] 50 50

Surrogate%RecAcceptance Limitsp-Terphenyl7146 - 105

Client: ERRG Job Number: 720-10373-1

Client Sample ID: **PTLF 12WS 18A-D**

Lab Sample ID: 720-10373-5 Date Sampled: 08/16/2007 1535 Client Matrix: Solid Date Received: 08/16/2007 1855

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

HP DRO5 Method: 8015B Analysis Batch: 720-24936 Instrument ID: Preparation: 3550B Prep Batch: 720-24883 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume:

30.10 g Date Analyzed: 08/19/2007 2251 Final Weight/Volume: 5 mL

Date Prepared: 08/16/2007 1114 Injection Volume:

Column ID: **PRIMARY**

DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 16 1.0 Motor Oil Range Organics [C24-C36] 100 50 %Rec Acceptance Limits Surrogate

46 - 105 p-Terphenyl 63

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 14A-D

 Lab Sample ID:
 720-10373-1
 Date Sampled:
 08/16/2007 1500

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A Analysis Batch: 720-24961 Instrument ID: Varian Pest 2

Preparation: 3550B Prep Batch: 720-24893 Lab File ID: N/A

Dilution: 5.0 Initial Weight/Volume: 30.08 g

Date Analyzed: 08/17/2007 1418 Final Weight/Volume: 10 mL

Date Prepared: 08/16/2007 1256 Injection Volume: Column ID: PRIMARY

Qualifier DryWt Corrected: N Result (ug/Kg) RL Analyte Aldrin ND 10 13 10 Dieldrin ND 10 Endrin aldehyde Endrin ND 10 Endrin ketone ND 10 Heptachlor ND 10 Heptachlor epoxide ND 10 4,4'-DDT 25 10 4,4'-DDE 10 12 4,4'-DDD 10 ND Endosulfan I ND 10 Endosulfan II ND 10 alpha-BHC ND 10 beta-BHC 10 ND gamma-BHC (Lindane) ND 10 delta-BHC ND 10 Endosulfan sulfate ND 10 Methoxychlor ND 10 Toxaphene 200 ND Chlordane (technical) 200 ND alpha-Chlordane ND 10 gamma-Chlordane ND 10 %Rec Surrogate Acceptance Limits Tetrachloro-m-xylene 50 - 125 97 46 - 142 DCB Decachlorobiphenyl 97

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 15A-D

 Lab Sample ID:
 720-10373-2
 Date Sampled:
 08/16/2007
 1515

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A Analysis Batch: 720-24961 Instrument ID: Varian Pest 2

Preparation: 3550B Prep Batch: 720-24893 Lab File ID: N/A

Dilution: 5.0 Initial Weight/Volume: 30.02 g
Date Analyzed: 08/17/2007 1440 Final Weight/Volume: 10 mL

Date Prepared: 08/16/2007 1256 Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Aldrin		ND		10
Dieldrin		ND		10
Endrin aldehyde		ND		10
Endrin		ND		10
Endrin ketone		ND		10
Heptachlor		ND		10
Heptachlor epoxide		ND		10
4,4'-DDT		18		10
4,4'-DDE		ND		10
4,4'-DDD		ND		10
Endosulfan I		ND		10
Endosulfan II		ND		10
alpha-BHC		ND		10
beta-BHC		ND		10
gamma-BHC (Lindane)		ND		10
delta-BHC		ND		10
Endosulfan sulfate		ND		10
Methoxychlor		ND		10
Toxaphene		ND		200
Chlordane (technical)		ND		200
alpha-Chlordane		ND		10
gamma-Chlordane		ND		10
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		103		50 - 125
DCB Decachlorobiphenyl		90		46 - 142

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 16A-D

Lab Sample ID: 720-10373-3 Date Sampled: 08/16/2007 1525 Client Matrix: Solid Date Received: 08/16/2007 1855

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A Analysis Batch: 720-24961 Instrument ID: Varian Pest 2

Preparation: 3550B Prep Batch: 720-24893 Lab File ID: N/A

Dilution: Initial Weight/Volume: 30.04 g 5.0 Date Analyzed: 08/17/2007 1503 Final Weight/Volume: 10 mL

Date Prepared: Injection Volume:

08/16/2007 1256 Column ID: **PRIMARY**

Qualifier DryWt Corrected: N Result (ug/Kg) RL Analyte Aldrin ND 10 ND 10 Dieldrin ND 10 Endrin aldehyde Endrin ND 10 Endrin ketone ND 10 Heptachlor ND 10 Heptachlor epoxide ND 10 4,4'-DDT ND 10 4,4'-DDE 20 10 4,4'-DDD 10 ND Endosulfan I ND 10 Endosulfan II ND 10 alpha-BHC ND 10 beta-BHC 10 ND gamma-BHC (Lindane) ND 10 delta-BHC ND 10 Endosulfan sulfate ND 10 Methoxychlor ND 10 Toxaphene 200 ND Chlordane (technical) 200 ND alpha-Chlordane ND 10 gamma-Chlordane ND 10 %Rec Surrogate Acceptance Limits Tetrachloro-m-xylene 50 - 125 102 46 - 142 DCB Decachlorobiphenyl 90

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 17A-D

 Lab Sample ID:
 720-10373-4
 Date Sampled:
 08/16/2007
 1545

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A Analysis Batch: 720-24961 Instrument ID: Varian Pest 2

Preparation: 3550B Prep Batch: 720-24893 Lab File ID: N/A

Dilution: 5.0 Initial Weight/Volume: 30.11 g

Date Analyzed: 08/17/2007 1525 Final Weight/Volume: 10 mL Date Prepared: 08/16/2007 1256 Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Aldrin		ND		10
Dieldrin		ND		10
Endrin aldehyde		ND		10
Endrin		ND		10
Endrin ketone		ND		10
Heptachlor		ND		10
Heptachlor epoxide		ND		10
4,4'-DDT		17		10
4,4'-DDE		ND		10
4,4'-DDD		ND		10
Endosulfan I		ND		10
Endosulfan II		ND		10
alpha-BHC		ND		10
beta-BHC		ND		10
gamma-BHC (Lindane)		ND		10
delta-BHC		ND		10
Endosulfan sulfate		ND		10
Methoxychlor		ND		10
Toxaphene		ND		200
Chlordane (technical)		ND		200
alpha-Chlordane		ND		10
gamma-Chlordane		ND		10
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		97		50 - 125
DCB Decachlorobiphenyl		83		46 - 142

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 18A-D

 Lab Sample ID:
 720-10373-5
 Date Sampled:
 08/16/2007
 1535

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A Analysis Batch: 720-24961 Instrument ID: Varian Pest 2

Preparation: 3550B Prep Batch: 720-24893 Lab File ID: N/A

Dilution: 5.0 Initial Weight/Volume: 30.21 g
Date Analyzed: 08/17/2007 1547 Final Weight/Volume: 10 mL

Date Prepared: 08/16/2007 1256 Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Aldrin		ND		9.9
Dieldrin		11		9.9
Endrin aldehyde		ND		9.9
Endrin		ND		9.9
Endrin ketone		ND		9.9
Heptachlor		ND		9.9
Heptachlor epoxide		ND		9.9
4,4'-DDT		19		9.9
4,4'-DDE		ND		9.9
4,4'-DDD		ND		9.9
Endosulfan I		ND		9.9
Endosulfan II		ND		9.9
alpha-BHC		ND		9.9
beta-BHC		ND		9.9
gamma-BHC (Lindane)		ND		9.9
delta-BHC		ND		9.9
Endosulfan sulfate		ND		9.9
Methoxychlor		ND		9.9
Toxaphene		ND		200
Chlordane (technical)		ND		200
alpha-Chlordane		ND		9.9
gamma-Chlordane		ND		9.9
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		97		50 - 125
DCB Decachlorobiphenyl		86		46 - 142

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 14A-D

 Lab Sample ID:
 720-10373-1
 Date Sampled:
 08/16/2007 1500

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 720-24966 Instrument ID: Agilent PCB 2

Preparation: 3550B Prep Batch: 720-24926 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.08 g
Date Analyzed: 08/17/2007 0914 Final Weight/Volume: 10 mL

Date Prepared: 08/16/2007 1955 Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		89		46 - 111
DCB Decachlorobiphenyl		90		34 - 106

Client: ERRG Job Number: 720-10373-1

Client Sample ID: **PTLF 12WS 15A-D**

Lab Sample ID: 720-10373-2 Date Sampled: 08/16/2007 1515 Client Matrix: Solid Date Received: 08/16/2007 1855

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 720-24966 Instrument ID: Agilent PCB 2

Preparation: 3550B Prep Batch: 720-24926 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.02 g

Date Analyzed: 08/17/2007 0952 Final Weight/Volume: 10 mL

Date Prepared: 08/16/2007 1955 Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		89		46 - 111
DCB Decachlorobiphenyl		82		34 - 106

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 16A-D

 Lab Sample ID:
 720-10373-3
 Date Sampled:
 08/16/2007
 1525

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 720-24966 Instrument ID: Agilent PCB 2

Preparation: 3550B Prep Batch: 720-24926 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.04 g
Date Analyzed: 08/17/2007 0933 Final Weight/Volume: 10 mL

 Date Analyzed:
 08/17/2007 0933
 Final Weight/Volume:
 10

 Date Prepared:
 08/16/2007 1955
 Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		53		50
PCB-1260		ND		50
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		90		46 - 111
DCB Decachlorobiphenyl		84		34 - 106

Client: ERRG Job Number: 720-10373-1

Client Sample ID: **PTLF 12WS 17A-D**

Lab Sample ID: 720-10373-4 Date Sampled: 08/16/2007 1545 Client Matrix: Solid Date Received: 08/16/2007 1855

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 720-24966 Instrument ID: Agilent PCB 2

Preparation: 3550B Prep Batch: 720-24926 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.11 g

Date Analyzed: 08/17/2007 1011 Final Weight/Volume: 10 mL

Date Prepared: 08/16/2007 1955 Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		87		46 - 111
DCB Decachlorobiphenyl		77		34 - 106

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 18A-D

 Lab Sample ID:
 720-10373-5
 Date Sampled:
 08/16/2007
 1535

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 720-24966 Instrument ID: Agilent PCB 2

Preparation: 3550B Prep Batch: 720-24926 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.21 g
Date Analyzed: 08/17/2007 1030 Final Weight/Volume: 10 mL

Date Prepared: 08/16/2007 1955 Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		64		50
PCB-1260		ND		50
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		86		46 - 111
DCB Decachlorobiphenyl		79		34 - 106

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 14A-D

 Lab Sample ID:
 720-10373-1
 Date Sampled:
 08/16/2007 1500

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-24938 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-24929 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g
Date Analyzed: 08/17/2007 1608 Final Weight/Volume: 50 mL

Date Analyzed: 08/17/2007 1608 Date Prepared: 08/17/2007 0706

Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RLArsenic 9.4 0.98 Barium 240 0.98 Cadmium 1.9 0.49 Chromium 120 0.98 Lead 710 0.98 Selenium ND 2.0 Silver 1.8 0.98 Zinc 1100 0.98

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-24978 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-24941 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.03 g

Date Analyzed: 08/17/2007 1556 Final Weight/Volume: 50 mL Date Prepared: 08/17/2007 0952

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.24 0.049

Varian ICP

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 15A-D

 Lab Sample ID:
 720-10373-2
 Date Sampled:
 08/16/2007 1515

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-24938 Instrument ID: Preparation: 3050B Prep Batch: 720-24929 Lab File ID: Dilution: 1.0 Initial Weight/N

Lab File ID: N/A
Initial Weight/Volume: 0.99 g
Final Weight/Volume: 50 mL

Date Analyzed: 08/17/2007 1612 Date Prepared: 08/17/2007 0706

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		8.3		1.0
Barium		430		1.0
Cadmium		1.7		0.51
Chromium		130		1.0
Lead		790		1.0
Selenium		ND		2.0
Silver		5.2		1.0
Zinc		950		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-24978Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-24941Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g
Date Analyzed: 08/17/2007 1558 Final Weight/Volume: 50 mL
Date Prepared: 08/17/2007 0952

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.71 0.050

50 mL

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 16A-D

 Lab Sample ID:
 720-10373-3
 Date Sampled:
 08/16/2007
 1525

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-24938Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-24929Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.03 g

Date Analyzed: 08/17/2007 1615 Final Weight/Volume:

Date Prepared: 08/17/2007 0706

Analyte	Dry	Wt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic			8.5		0.97
Barium			470		0.97
Cadmium			1.8		0.49
Chromium			160		0.97
Selenium			2.2		1.9
Silver			8.6		0.97
Method:	6010B	Analy	sis Batch: 720-24938	Instrument	ID: Varian ICF

Method:6010BAnalysis Batch: 720-24938Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-24929Lab File ID:N/ADilution:10Initial Weight/Volume:1.03 gDate Analyzed:08/17/2007 1910Final Weight/Volume:50 mL

Date Analyzed: 08/17/2007 1910 Fi
Date Prepared: 08/17/2007 0706

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Lead
 3900
 9.7

 Zinc
 2600
 9.7

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-24978 Instrument ID: FIMS 100
Preparation: 7471A Prep Batch: 720-24941 Lab File ID: N/A

 Dilution:
 1.0
 Initial Weight/Volume:
 0.99 g

 Date Analyzed:
 08/17/2007 1559
 Final Weight/Volume:
 50 mL

 Date Prepared:
 08/17/2007 0952

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.50 0.051

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 17A-D

 Lab Sample ID:
 720-10373-4
 Date Sampled:
 08/16/2007
 1545

 Client Matrix:
 Solid
 Date Received:
 08/16/2007
 1855

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-24938Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-24929Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.03 g

Dilution: 1.0 Initial Weight/Volume: 1.03 g
Date Analyzed: 08/17/2007 1619 Final Weight/Volume: 50 mL

Date Prepared: 08/17/2007 0706

Analyte	DryWt Corre	cted: N Result (mg/Kg) Qualifier	RL
Arsenic		5.2		0.97
Barium		350		0.97
Cadmium		1.4		0.49
Chromium		160		0.97
Selenium		ND		1.9
Silver		5.1		0.97
Zinc		840		0.97
Method:	6010B	Analysis Batch: 720-249	38 Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-24929	Lab File ID:	N/A
Dilution:	10	•	Initial Weight/	Volume: 1.03 g
Date Analyzed:	08/17/2007 1914		Final Weight/\	/olume: 50 mL
Date Prepared:	08/17/2007 0706		· ·	

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL
Lead 10000 9.7

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-24978 Instrument ID: FIMS 100
Preparation: 7471A Prep Batch: 720-24941 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.98 g
Date Analyzed: 08/17/2007 1600 Final Weight/Volume: 50 mL

Date Prepared: 08/17/2007 0952

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.90
 0.051

Client: ERRG Job Number: 720-10373-1

Client Sample ID: PTLF 12WS 18A-D

 Lab Sample ID:
 720-10373-5
 Date Sampled:
 08/16/2007 1535

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-24938 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-24929 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g
Date Analyzed: 08/17/2007 1623 Final Weight/Volume: 50 mL

Date Prepared: 08/17/2007 0706

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.9		0.98
Barium		310		0.98
Cadmium		0.71		0.49
Chromium		100		0.98
Lead		600		0.98
Selenium		ND		2.0
Silver		2.3		0.98
Zinc		1900		0.98

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-24978Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-24941Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g
Date Analyzed: 08/17/2007 1604 Final Weight/Volume: 50 mL

Date Analyzed: 08/17/2007 1604 Final Weight/Volume: 50 mL Date Prepared: 08/17/2007 0952

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.34
 0.050

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10373-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
Metals		
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ERRG Job Number: 720-10373-1

QC Association Summary

Lab Sample ID Client Sample ID Base GC/MS VOA Prep Batch: 720-24928 Lab Control Spike T LCS 720-24928/2-A Lab Control Spike Duplicate T LCSD 720-24928/1-A Method Blank T 720-10299-A-30-F MS Matrix Spike T 720-10299-A-30-G MSD Matrix Spike Duplicate T 720-10373-1 PTLF 12WS 14A-D T 720-10373-2 PTLF 12WS 15A-D T 720-10373-3 PTLF 12WS 16A-D T 720-10373-4 PTLF 12WS 17A-D T Analysis Batch:720-24974 Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T MB 720-24928/1-A Method Blank T	Solid	Method	Prep Batch
LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T MB 720-24928/1-A Method Blank T 720-10299-A-30-F MS Matrix Spike T 720-10299-A-30-G MSD Matrix Spike Duplicate T 720-10373-1 PTLF 12WS 14A-D T 720-10373-2 PTLF 12WS 15A-D T 720-10373-3 PTLF 12WS 16A-D T 720-10373-4 PTLF 12WS 17A-D T Analysis Batch:720-24974 LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T	Solid		
LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T MB 720-24928/1-A Method Blank T 720-10299-A-30-F MS Matrix Spike T 720-10299-A-30-G MSD Matrix Spike Duplicate T 720-10373-1 PTLF 12WS 14A-D T 720-10373-2 PTLF 12WS 15A-D T 720-10373-3 PTLF 12WS 16A-D T 720-10373-4 PTLF 12WS 17A-D T Analysis Batch:720-24974 LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T	Solid		
MB 720-24928/1-A Method Blank T 720-10299-A-30-F MS Matrix Spike T 720-10299-A-30-G MSD Matrix Spike Duplicate T 720-10373-1 PTLF 12WS 14A-D T 720-10373-2 PTLF 12WS 15A-D T 720-10373-3 PTLF 12WS 16A-D T 720-10373-4 PTLF 12WS 17A-D T Analysis Batch:720-24974 LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T		5030B	
720-10299-A-30-F MS Matrix Spike T 720-10299-A-30-G MSD Matrix Spike Duplicate T 720-10373-1 PTLF 12WS 14A-D T 720-10373-2 PTLF 12WS 15A-D T 720-10373-3 PTLF 12WS 16A-D T 720-10373-4 PTLF 12WS 17A-D T Analysis Batch:720-24974 LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T	Solid	5030B	
720-10299-A-30-G MSD Matrix Spike Duplicate T 720-10373-1 PTLF 12WS 14A-D T 720-10373-2 PTLF 12WS 15A-D T 720-10373-3 PTLF 12WS 16A-D T 720-10373-4 PTLF 12WS 17A-D T Analysis Batch:720-24974 LCS 720-24928/2-A Lab Control Spike T Lab Control Spike Duplicate T	Solid	5030B	
720-10373-1 PTLF 12WS 14Å-D T 720-10373-2 PTLF 12WS 15A-D T 720-10373-3 PTLF 12WS 16A-D T 720-10373-4 PTLF 12WS 17A-D T Analysis Batch:720-24974 LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T	Solid	5030B	
720-10373-2 PTLF 12WS 15A-D T 720-10373-3 PTLF 12WS 16A-D T 720-10373-4 PTLF 12WS 17A-D T Analysis Batch:720-24974 LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T	Solid	5030B	
720-10373-3 PTLF 12WS 16A-D T 720-10373-4 PTLF 12WS 17A-D T Analysis Batch:720-24974 LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T	Solid	5030B	
720-10373-4 PTLF 12WS 17A-D T Analysis Batch:720-24974 LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T	Solid	5030B	
Analysis Batch:720-24974 Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T	Solid	5030B	
LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T	Solid	5030B	
LCS 720-24928/2-A Lab Control Spike T LCSD 720-24928/3-A Lab Control Spike Duplicate T			
LCSD 720-24928/3-A Lab Control Spike Duplicate T	Solid	8260B	720-24928
	Solid	8260B	720-24928
	Solid	8260B	720-24928
720-10299-A-30-F MS Matrix Spike T	Solid	8260B	720-24928
720-10299-A-30-G MSD Matrix Spike Duplicate T	Solid	8260B	720-24928
720-10373-1 PTLF 12WS 14A-D T	Solid	8260B	720-24928
720-10373-2 PTLF 12WS 15A-D T	Solid	8260B	720-24928
720-10373-3 PTLF 12WS 16A-D T	Solid	8260B	720-24928
720-10373-4 PTLF 12WS 17A-D T	Solid	8260B	720-24928
Prep Batch: 720-24983			
LCS 720-24983/2-A Lab Control Spike T	Solid	5030B	
LCSD 720-24983/3-A Lab Control Spike Duplicate T	Solid	5030B	
MB 720-24983/1-A Method Blank T	Solid	5030B	
720-10373-5 PTLF 12WS 18A-D T	Solid	5030B	
Analysis Batch:720-24984			
LCS 720-24983/2-A Lab Control Spike T	Solid	8260B	720-24983
LCSD 720-24983/3-A Lab Control Spike Duplicate T	Cona	32000	
MB 720-24983/1-A Method Blank T	Solid	8260B	720-24983
720-10373-5 PTLF 12WS 18A-D T			720-24983 720-24983

Report Basis

T = Total

Client: ERRG Job Number: 720-10373-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-24883					
LCS 720-24883/2-A	Lab Control Spike	Т	Solid	3550B	
LCSD 720-24883/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 720-24883/1-A	Method Blank	T	Solid	3550B	
720-10355-B-1-C MS	Matrix Spike	T	Solid	3550B	
720-10355-B-1-D MSD	Matrix Spike Duplicate	T	Solid	3550B	
720-10373-1	PTLF 12WS 14A-D	T	Solid	3550B	
720-10373-2	PTLF 12WS 15A-D	T	Solid	3550B	
720-10373-3	PTLF 12WS 16A-D	T	Solid	3550B	
720-10373-4	PTLF 12WS 17A-D	T	Solid	3550B	
720-10373-5	PTLF 12WS 18A-D	T	Solid	3550B	
Prep Batch: 720-24893					
LCS 720-24893/2-A	Lab Control Spike	T	Solid	3550B	
LCSD 720-24893/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 720-24893/1-A	Method Blank	T	Solid	3550B	
720-10351-A-15-C MS	Matrix Spike	Т	Solid	3550B	
720-10351-A-15-D MSD	Matrix Spike Duplicate	T	Solid	3550B	
720-10373-1	PTLF 12WS 14A-D	Т	Solid	3550B	
720-10373-2	PTLF 12WS 15A-D	Т	Solid	3550B	
720-10373-3	PTLF 12WS 16A-D	Т	Solid	3550B	
720-10373-4	PTLF 12WS 17A-D	Т	Solid	3550B	
720-10373-5	PTLF 12WS 18A-D	Т	Solid	3550B	
Prep Batch: 720-24926					
LCS 720-24926/2-A	Lab Control Spike	Т	Solid	3550B	
LCSD 720-24926/3-A	Lab Control Spike Duplicate	Ť	Solid	3550B	
MB 720-24926/1-A	Method Blank	Ť	Solid	3550B	
720-10373-1	PTLF 12WS 14A-D	Ť	Solid	3550B	
720-10373-2	PTLF 12WS 15A-D	Ť	Solid	3550B	
720-10373-3	PTLF 12WS 16A-D	Ť	Solid	3550B	
720-10373-4	PTLF 12WS 17A-D	T	Solid	3550B	
720-10373-5	PTLF 12WS 18A-D	T	Solid	3550B	
720-10373-5MS	Matrix Spike	Ť	Solid	3550B	
720-10373-5MSD	Matrix Spike Duplicate	T	Solid	3550B	

Client: ERRG Job Number: 720-10373-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:720-249					
LCS 720-24883/2-A	Lab Control Spike	Т	Solid	8015B	720-24883
LCSD 720-24883/3-A	Lab Control Spike Duplicate	Т	Solid	8015B	720-24883
MB 720-24883/1-A	Method Blank	Т	Solid	8015B	720-24883
720-10355-B-1-C MS	Matrix Spike	Т	Solid	8015B	720-24883
720-10355-B-1-D MSD	Matrix Spike Duplicate	Т	Solid	8015B	720-24883
720-10373-1	PTLF 12WS 14A-D	Т	Solid	8015B	720-24883
720-10373-2	PTLF 12WS 15A-D	Т	Solid	8015B	720-24883
720-10373-3	PTLF 12WS 16A-D	Т	Solid	8015B	720-24883
720-10373-4	PTLF 12WS 17A-D	Т	Solid	8015B	720-24883
720-10373-5	PTLF 12WS 18A-D	Т	Solid	8015B	720-24883
Analysis Batch:720-249	961				
LCS 720-24893/2-A	Lab Control Spike	Т	Solid	8081A	720-24893
LCSD 720-24893/3-A	Lab Control Spike Duplicate	Т	Solid	8081A	720-24893
MB 720-24893/1-A	Method Blank	Т	Solid	8081A	720-24893
720-10351-A-15-C MS	Matrix Spike	Т	Solid	8081A	720-24893
720-10351-A-15-D MSD	Matrix Spike Duplicate	Т	Solid	8081A	720-24893
720-10373-1	PTLF 12WS 14A-D	Т	Solid	8081A	720-24893
720-10373-2	PTLF 12WS 15A-D	Т	Solid	8081A	720-24893
720-10373-3	PTLF 12WS 16A-D	Т	Solid	8081A	720-24893
720-10373-4	PTLF 12WS 17A-D	Т	Solid	8081A	720-24893
720-10373-5	PTLF 12WS 18A-D	Т	Solid	8081A	720-24893
Analysis Batch:720-249	966				
LCS 720-24926/2-A	Lab Control Spike	Т	Solid	8082	720-24926
LCSD 720-24926/3-A	Lab Control Spike Duplicate	Ť	Solid	8082	720-24926
MB 720-24926/1-A	Method Blank	Т	Solid	8082	720-24926
720-10373-1	PTLF 12WS 14A-D	Т	Solid	8082	720-24926
720-10373-2	PTLF 12WS 15A-D	Ť	Solid	8082	720-24926
720-10373-3	PTLF 12WS 16A-D	Ť	Solid	8082	720-24926
720-10373-4	PTLF 12WS 17A-D	Ť	Solid	8082	720-24926
720-10373-5	PTLF 12WS 18A-D	Ť	Solid	8082	720-24926
720-10373-5MS	Matrix Spike	Ť	Solid	8082	720-24926
720-10373-5MSD	Matrix Spike Duplicate	Ť	Solid	8082	720-24926

Report Basis

T = Total

Client: ERRG Job Number: 720-10373-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-24929					
LCS 720-24929/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-24929/3-A	Lab Control Spike Duplicate	Τ	Solid	3050B	
LCSSRM 720-24929/25-A	LCS-Standard Reference Material	Τ	Solid	3050B	
MB 720-24929/1-A	Method Blank	T	Solid	3050B	
720-10373-1	PTLF 12WS 14A-D	T	Solid	3050B	
720-10373-1MS	Matrix Spike	T	Solid	3050B	
720-10373-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
720-10373-2	PTLF 12WS 15A-D	T	Solid	3050B	
720-10373-3	PTLF 12WS 16A-D	T	Solid	3050B	
720-10373-4	PTLF 12WS 17A-D	T	Solid	3050B	
720-10373-5	PTLF 12WS 18A-D	Т	Solid	3050B	
Analysis Batch:720-24938	1				
LCS 720-24929/2-A	Lab Control Spike	T	Solid	6010B	720-24929
LCSD 720-24929/3-A	Lab Control Spike Duplicate	Т	Solid	6010B	720-24929
LCSSRM 720-24929/25-A	LCS-Standard Reference Material	Т	Solid	6010B	720-24929
MB 720-24929/1-A	Method Blank	Т	Solid	6010B	720-24929
720-10373-1	PTLF 12WS 14A-D	Т	Solid	6010B	720-24929
720-10373-1MS	Matrix Spike	Т	Solid	6010B	720-24929
720-10373-1MSD	Matrix Spike Duplicate	Т	Solid	6010B	720-24929
720-10373-2	PTLF 12WS 15A-D	T	Solid	6010B	720-24929
720-10373-3	PTLF 12WS 16A-D	Т	Solid	6010B	720-24929
720-10373-4	PTLF 12WS 17A-D	T	Solid	6010B	720-24929
720-10373-5	PTLF 12WS 18A-D	T	Solid	6010B	720-24929
Prep Batch: 720-24941					
LCS 720-24941/2-A	Lab Control Spike	Т	Solid	7471A	
LCSD 720-24941/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	
MB 720-24941/1-A	Method Blank	Т	Solid	7471A	
720-10329-A-35-L MS	Matrix Spike	Т	Solid	7471A	
720-10329-A-35-M MSD	Matrix Spike Duplicate	T	Solid	7471A	
720-10373-1	PTLF 12WS 14A-D	T	Solid	7471A	
720-10373-2	PTLF 12WS 15A-D	Ť	Solid	7471A	
720-10373-3	PTLF 12WS 16A-D	T	Solid	7471A	
720-10373-4	PTLF 12WS 17A-D	Ť	Solid	7471A	
720-10373-5	PTLF 12WS 18A-D	Ť	Solid	7471A	

Client: ERRG Job Number: 720-10373-1

QC Association Summary

Client Sample ID	-		Mothod	Prep Batch
Chefit Sample ID	Buolo	Onent watrix	Metriod	Fiep Batch
Lab Control Spike	Т	Solid	7471A	720-24941
Lab Control Spike Duplicate	Т	Solid	7471A	720-24941
Method Blank	Т	Solid	7471A	720-24941
Matrix Spike	Т	Solid	7471A	720-24941
Matrix Spike Duplicate	Т	Solid	7471A	720-24941
PTLF 12WS 14A-D	Т	Solid	7471A	720-24941
PTLF 12WS 15A-D	Т	Solid	7471A	720-24941
PTLF 12WS 16A-D	Т	Solid	7471A	720-24941
PTLF 12WS 17A-D	Т	Solid	7471A	720-24941
PTLF 12WS 18A-D	Т	Solid	7471A	720-24941
	Lab Control Spike Lab Control Spike Duplicate Method Blank Matrix Spike Matrix Spike Duplicate PTLF 12WS 14A-D PTLF 12WS 15A-D PTLF 12WS 16A-D PTLF 12WS 17A-D	Client Sample ID Basis T8 Lab Control Spike T Lab Control Spike Duplicate T Method Blank T Matrix Spike T Matrix Spike Duplicate T PTLF 12WS 14A-D T PTLF 12WS 15A-D T PTLF 12WS 16A-D T PTLF 12WS 17A-D T	Lab Control Spike T Solid Lab Control Spike Duplicate T Solid Method Blank T Solid Matrix Spike T Solid Matrix Spike Duplicate T Solid PTLF 12WS 14A-D T Solid PTLF 12WS 15A-D T Solid PTLF 12WS 16A-D T Solid PTLF 12WS 17A-D T Solid PTLF 12WS 17A-D T Solid	Client Sample ID Basis Client Matrix Method 78 Lab Control Spike T Solid 7471A Lab Control Spike Duplicate T Solid 7471A Method Blank T Solid 7471A Matrix Spike T Solid 7471A Matrix Spike Duplicate T Solid 7471A PTLF 12WS 14A-D T Solid 7471A PTLF 12WS 15A-D T Solid 7471A PTLF 12WS 16A-D T Solid 7471A PTLF 12WS 17A-D T Solid 7471A

Report Basis

T = Total

Client: ERRG Job Number: 720-10373-1

Method Blank - Batch: 720-24928 Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-24928/1-A Analysis Batch: 720-24974 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24928 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g

Date Analyzed: 08/17/2007 0900 Final Weight/Volume: 10.00 mL

Date Prepared: 08/17/2007 0451

RLAnalyte Result Qual Benzene ND 0.0050 Ethylbenzene ND 0.0050 Toluene ND 0.0050 Xylenes, Total ND 0.010 Gasoline Range Organics (GRO)-C5-C12 ND 0.25 Surrogate % Rec Acceptance Limits Toluene-d8 (Surr) 96 70 - 130 1,2-Dichloroethane-d4 (Surr) 97 60 - 140

Lab Control Spike/ Method: 8260B
Lab Control Spike Duplicate Recovery Report - Batch: 720-24928 Preparation: 5030B

LCS Lab Sample ID: LCS 720-24928/2-A Analysis Batch: 720-24974 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24928 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g
Date Analyzed: 08/17/2007 0947 Final Weight/Volume: 10.00 mL

LCSD Lab Sample ID: LCSD 720-24928/3-A Analysis Batch: 720-24974 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24928 Lab File ID: c:\varianws\data\200708\081

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g

Date Analyzed: 08/17/2007 0837 Final Weight/Volume: 10.00 mL Date Prepared: 08/17/2007 0451

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit Benzene 86 85 69 - 129 1 20 93 90 70 - 130 20 Toluene 4 Gasoline Range Organics (GRO)-C5-C12 62 60 - 130 20 6 LCS % Rec LCSD % Rec Surrogate Acceptance Limits 96 95 70 - 130 Toluene-d8 (Surr) 86 60 - 140 1,2-Dichloroethane-d4 (Surr) 83

Calculations are performed before rounding to avoid round-off errors in calculated results.

Date Prepared:

08/17/2007 0451

Client: ERRG Job Number: 720-10373-1

Matrix Spike/ Method: 8260B
Matrix Spike Duplicate Recovery Report - Batch: 720-24928 Preparation: 5030B

MS Lab Sample ID: 720-10299-A-30-F MS Analysis Batch: 720-24974 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24928 Lab File ID: c:\varianws\data\200708\(

Dilution: 1.0 Initial Weight/Volume: 5.18 g

Date Analyzed: 08/17/2007 1058 Final Weight/Volume: 10.00 mL Date Prepared: 08/17/2007 0451

MSD Lab Sample ID: 720-10299-A-30-G MSD Analysis Batch: 720-24974 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24928 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.24 g

Date Analyzed: 08/17/2007 1121 Final Weight/Volume: 10.00 mL Date Prepared: 08/17/2007 0451

	%	6 Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	85	82	69 - 129	6	20		
Toluene	86	82	70 - 130	6	20		
Gasoline Range Organics (GRO)-C5-C12	39	31	60 - 130	16	20	F	F
Surrogate		MS % Rec	MSD ^o	% Rec	Acce	ptance Limi	its
Toluene-d8 (Surr)		96	96		7	0 - 130	
1,2-Dichloroethane-d4 (Surr)		95	90		6	0 - 140	

Client: ERRG Job Number: 720-10373-1

Method Blank - Batch: 720-24983 Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-24983/1-A Analysis Batch: 720-24984 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24983 Lab File ID: c:\varianws\data\200708\08

Units: mg/Kg Initial Weight/Volume: 5 g Dilution: 1.0 Date Analyzed: 08/19/2007 1111 Final Weight/Volume: 10 mL

Date Prepared: 08/19/2007 0903

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Ethylbenzene	ND		0.0050
Toluene	ND		0.0050
Xylenes, Total	ND		0.010
Gasoline Range Organics (GRO)-C5-C12	ND		0.25
Surrogate	% Rec	Acceptance L	imits
Toluene-d8 (Surr)	98	70 - 130	
1,2-Dichloroethane-d4 (Surr)	95	60 - 140	

Lab Control Spike/ Method: 8260B Lab Control Spike Duplicate Recovery Report - Batch: 720-24983 Preparation: 5030B

LCS Lab Sample ID: LCS 720-24983/2-A Analysis Batch: 720-24984 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24983 Lab File ID: c:\varianws\data\200708\0{ Dilution: 1.0 Units: mg/Kg 5 g

Initial Weight/Volume: Date Analyzed: 08/19/2007 1027 Final Weight/Volume: 10 mL Date Prepared: 08/19/2007 0903

LCSD Lab Sample ID: LCSD 720-24983/3-A Analysis Batch: 720-24984 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-24983 Lab File ID: c:\varianws\data\200708\081

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5 g

Date Analyzed: 08/19/2007 1049 Final Weight/Volume: 10 mL Date Prepared: 08/19/2007 0903

	9	<u> 6 Rec.</u>					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	98	103	69 - 129	5	20		
Toluene	109	113	70 - 130	3	20		
Gasoline Range Organics (GRO)-C5-C12	78	76	60 - 130	2	20		
Surrogate	Surrogate LCS		LCSD %	Rec	Accep	tance Limits	
Toluene-d8 (Surr)	9	7	99		7	0 - 130	
1,2-Dichloroethane-d4 (Surr)	8	1	81		6	0 - 140	

Calculations are performed before rounding to avoid round-off errors in calculated results.

RL

46 - 105

Client: ERRG Job Number: 720-10373-1

Method Blank - Batch: 720-24883 Method: 8015B Preparation: 3550B

Lab Sample ID: MB 720-24883/1-A Analysis Batch: 720-24936 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-24883 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.20 g
Date Analyzed: 08/17/2007 0343 Final Weight/Volume: 5 mL

Date Prepared: 08/16/2007 1114 Injection Volume:

Column ID: PRIMARY

Result

Qual

Diesel Range Organics [C10-C28] ND 0.99
Motor Oil Range Organics [C24-C36] ND 50

Surrogate % Rec Acceptance Limits

p-Terphenyl 81 46 - 105

Lab Control Spike/ Method: 8015B
Lab Control Spike Duplicate Recovery Report - Batch: 720-24883 Preparation: 3550B

LCS Lab Sample ID: LCS 720-24883/2-A Analysis Batch: 720-24936 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-24883 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.22 g

Date Analyzed: 08/17/2007 0249 Final Weight/Volume: 5 mL

Date Prepared: 08/16/2007 1114 Injection Volume:
Column ID: F

80

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-24883/3-A Analysis Batch: 720-24936 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-24883 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.22 g

Date Analyzed: 08/17/2007 0316 Final Weight/Volume: 5 mL

Date Prepared: 08/16/2007 1114 Injection Volume: Column ID: PRIMARY

COMMITTE. PRIMART

% Rec. LCS **RPD** Analyte LCSD Limit RPD Limit LCS Qual LCSD Qual Diesel Range Organics [C10-C28] 87 89 50 - 130 3 30 LCS % Rec Surrogate LCSD % Rec Acceptance Limits

83

Calculations are performed before rounding to avoid round-off errors in calculated results.

p-Terphenyl

Analyte

PRIMARY

Client: ERRG Job Number: 720-10373-1

Matrix Spike/ Method: 8015B
Matrix Spike Duplicate Recovery Report - Batch: 720-24883 Preparation: 3550B

MS Lab Sample ID: 720-10355-B-1-C MS Analysis Batch: 720-24936 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-24883 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 30

Dilution: 1.0 Initial Weight/Volume: 30.27 g
Date Analyzed: 08/16/2007 1815 Final Weight/Volume: 5 mL

Date Prepared: 08/16/2007 1114 Injection Volume: Column ID:

MSD Lab Sample ID: 720-10355-B-1-D MSD Analysis Batch: 720-24936 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-24883 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.16 g
Date Analyzed: 08/16/2007 1842 Final Weight/Volume: 5 mL

Date Prepared: 08/16/2007 1114 Injection Volume:

Column ID: PRIMARY

% Rec. MS MSD RPD MS Qual MSD Qual Analyte Limit **RPD Limit** Diesel Range Organics [C10-C28] 50 - 130 67 64 4 30 Surrogate MS % Rec MSD % Rec Acceptance Limits 78 74 46 - 105 p-Terphenyl

Client: ERRG Job Number: 720-10373-1

Method Blank - Batch: 720-24893

Method: 8081A Preparation: 3550B

Lab Sample ID: MB 720-24893/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/17/2007 0032 Date Prepared: 08/16/2007 1256 Analysis Batch: 720-24961 Prep Batch: 720-24893

Units: ug/Kg

Instrument ID: Varian Pest 2

Lab File ID: N/A

Initial Weight/Volume: 30.30 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	RL
Aldrin	ND		2.0
Dieldrin	ND		2.0
Endrin aldehyde	ND		2.0
Endrin	ND		2.0
Endrin ketone	ND		2.0
Heptachlor	ND		2.0
Heptachlor epoxide	ND		2.0
4,4'-DDT	ND		2.0
4,4'-DDE	ND		2.0
4,4'-DDD	ND		2.0
Endosulfan I	ND		2.0
Endosulfan II	ND		2.0
alpha-BHC	ND		2.0
beta-BHC	ND		2.0
gamma-BHC (Lindane)	ND		2.0
delta-BHC	ND		2.0
Endosulfan sulfate	ND		2.0
Methoxychlor	ND		2.0
Toxaphene	ND		40
Chlordane (technical)	ND		40
alpha-Chlordane	ND		2.0
gamma-Chlordane	ND		2.0
Surrogate	% Rec	Acceptance Limits	
Tetrachloro-m-xylene	81	50 - 125	
DCB Decachlorobiphenyl	82	46 - 142	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10373-1

Lab Control Spike/ Method: 8081A
Lab Control Spike Duplicate Recovery Report - Batch: 720-24893 Preparation: 3550B

LCS Lab Sample ID: LCS 720-24893/2-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/17/2007 0054 Date Prepared: 08/16/2007 1256 Analysis Batch: 720-24961 Prep Batch: 720-24893

Units: ug/Kg

Instrument ID: Varian Pest 2

Lab File ID: N/A

Initial Weight/Volume: 30.12 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-24893/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/17/2007 0117 Date Prepared: 08/16/2007 1256 Analysis Batch: 720-24961 Prep Batch: 720-24893

Units: ug/Kg

Instrument ID: Varian Pest 2

Lab File ID: N/A

Initial Weight/Volume: 30.23 g Final Weight/Volume: 10 mL

Injection Volume:

	(<u>% Rec.</u>					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Aldrin	86	90	37 - 136	5	35		
Dieldrin	82	88	58 - 135	6	35		
Endrin	81	87	58 - 134	7	35		
Heptachlor	89	92	40 - 136	3	35		
4,4'-DDT	75	80	55 - 132	5	35		
gamma-BHC (Lindane)	91	92	37 - 137	1	35		
Surrogate	l	LCS % Rec	LCSD %	Rec	Accep	otance Limits	
Tetrachloro-m-xylene	8	39	87		5	0 - 125	
DCB Decachlorobiphenyl	8	37	87		4	6 - 142	

PRIMARY

Client: ERRG Job Number: 720-10373-1

Matrix Spike/ Method: 8081A Matrix Spike Duplicate Recovery Report - Batch: 720-24893 Preparation: 3550B

MS Lab Sample ID: 720-10351-A-15-C MS Analysis Batch: 720-24961 Instrument ID: Varian Pest 2

Client Matrix: Prep Batch: 720-24893 Solid Lab File ID: N/A

Initial Weight/Volume: 30.20 g Dilution: 2.0

Date Analyzed: 08/16/2007 2325 Final Weight/Volume: 10 mL

Date Prepared: 08/16/2007 1256 Injection Volume: Column ID:

Instrument ID: Varian Pest 2 MSD Lab Sample ID: 720-10351-A-15-D MSD Analysis Batch: 720-24961

Client Matrix: Solid Prep Batch: 720-24893 Lab File ID: N/A

Dilution: 2.0 Initial Weight/Volume: 30.36 g Date Analyzed: 08/16/2007 2347 Final Weight/Volume: 10 mL

Date Prepared: Injection Volume: 08/16/2007 1256

	<u>%</u>	Rec.				
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Aldrin	77	78	37 - 136	1	35	
Dieldrin	76	77	58 - 135	1	35	
Endrin	78	80	58 - 134	2	35	
Heptachlor	78	81	40 - 136	3	35	
4,4'-DDT	73	72	55 - 132	2	35	
gamma-BHC (Lindane)	77	79	37 - 137	2	35	
Surrogate		MS % Rec	MSD ^o	% Rec	Acce	ptance Limits
Tetrachloro-m-xylene		87	90		50) - 125
DCB Decachlorobiphenyl		76	78		46	6 - 142

Client: ERRG Job Number: 720-10373-1

Method Blank - Batch: 720-24926

Method: 8082 Preparation: 3550B

Lab Sample ID: MB 720-24926/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/17/2007 1147 Date Prepared: 08/16/2007 1955 Analysis Batch: 720-24966

Prep Batch: 720-24926

Units: ug/Kg

Instrument ID: Agilent PCB 2

Lab File ID: N/A

Initial Weight/Volume: 30.05 g Final Weight/Volume: 10 mL

Injection Volume:

Analyte	Result	Qual	RL
PCB-1016	ND		50
PCB-1221	ND		50
PCB-1232	ND		50
PCB-1242	ND		50
PCB-1248	ND		50
PCB-1254	ND		50
PCB-1260	ND		50
Surrogate	% Rec	Acceptance Limits	
Tetrachloro-m-xylene	87	46 - 111	
DCB Decachlorobiphenyl	83	34 - 106	

34 - 106

Client: ERRG Job Number: 720-10373-1

Lab Control Spike/ Method: 8082 Lab Control Spike Duplicate Recovery Report - Batch: 720-24926 Preparation: 3550B

LCS Lab Sample ID: LCS 720-24926/2-A Analysis Batch: 720-24966 Instrument ID: Agilent PCB 2

Prep Batch: 720-24926 Client Matrix: Solid Lab File ID: N/A

Units: ug/Kg Initial Weight/Volume: Dilution: 1.0

30.09 g Date Analyzed: 08/17/2007 1206 Final Weight/Volume: 10 mL

Date Prepared: 08/16/2007 1955 Injection Volume:

Column ID: **PRIMARY**

LCSD Lab Sample ID: LCSD 720-24926/3-A Analysis Batch: 720-24966 Instrument ID: Agilent PCB 2

Client Matrix: Solid Prep Batch: 720-24926 Lab File ID: N/A

90

Dilution: 1.0 Units: ug/Kg Initial Weight/Volume: 30.04 g

08/17/2007 1225 Final Weight/Volume: 10 mL Date Analyzed: Date Prepared: 08/16/2007 1955 Injection Volume:

Column ID: **PRIMARY**

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit PCB-1016 94 91 66 - 116 3 21 PCB-1260 57 - 110 2 24 87 88 Surrogate LCS % Rec LCSD % Rec Acceptance Limits Tetrachloro-m-xylene 95 91 46 - 111

91

DCB Decachlorobiphenyl

PRIMARY

34 - 106

Client: ERRG Job Number: 720-10373-1

Matrix Spike/ Method: 8082
Matrix Spike Duplicate Recovery Report - Batch: 720-24926 Preparation: 3550B

MS Lab Sample ID: 720-10373-5 Analysis Batch: 720-24966 Instrument ID: Agilent PCB 2

Client Matrix: Solid Prep Batch: 720-24926 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.16 g

Date Analyzed: 08/17/2007 1050 Final Weight/Volume: 10 mL

Date Prepared: 08/16/2007 1955 Injection Volume: Column ID:

MSD Lab Sample ID: 720-10373-5 Analysis Batch: 720-24966 Instrument ID: Agilent PCB 2

Client Matrix: Solid Prep Batch: 720-24906 Instrument ID: Agrient PCB 2

Dilution: 1.0 Initial Weight/Volume: 30.21 g

Date Analyzed: 08/17/2007 1109 Final Weight/Volume: 10 mL

Date Prepared: 08/16/2007 1955 Injection Volume:

81

Column ID: PRIMARY

% Rec. MSD RPD MS Qual MSD Qual Analyte MS Limit **RPD Limit** PCB-1016 96 97 25 - 147 2 38 PCB-1260 98 105 14 - 145 7 48 MS % Rec MSD % Rec Surrogate Acceptance Limits Tetrachloro-m-xylene 97 97 46 - 111

83

Calculations are performed before rounding to avoid round-off errors in calculated results.

DCB Decachlorobiphenyl

Client: ERRG Job Number: 720-10373-1

Method Blank - Batch: 720-24929

Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-24929/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/17/2007 1542 Date Prepared: 08/17/2007 0706 Analysis Batch: 720-24938 Prep Batch: 720-24929

Units: mg/Kg

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

Analyte	Result Qual	RL
Arsenic	ND	1.0
Barium	ND	1.0
Cadmium	ND	0.50
Chromium	ND	1.0
Lead	ND	1.0
Selenium	ND	2.0
Silver	ND	1.0
Zinc	ND	1.0

LCS-Standard Reference Material - Batch: 720-24929

Method: 6010B Preparation: 3050B

Lab Sample ID: LCSSRM 720-24929/25-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/17/2007 1740 Date Prepared: 08/17/2007 0706 Analysis Batch: 720-24938 Prep Batch: 720-24929

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	22.7	19.5	86	72 - 128	
Barium	145	123	85	80 - 120	
Cadmium	42.2	36.5	86	80 - 120	
Chromium	246	217	88	80 - 120	
Lead	44.1	36.1	82	75 - 126	
Selenium	165	154	93	80 - 120	
Silver	79.5	64.3	81	72 - 127	
Zinc	44.0	35.4	81	75 - 125	

Client: ERRG Job Number: 720-10373-1

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-24929 Preparation: 3050B

LCS Lab Sample ID: LCS 720-24929/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/17/2007 1545 Date Prepared: 08/17/2007 0706 Analysis Batch: 720-24938 Prep Batch: 720-24929

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-24929/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/17/2007 1549 Date Prepared: 08/17/2007 0706 Analysis Batch: 720-24938 Instrument ID: Varian ICP

Prep Batch: 720-24929 Lab File ID: N/A

Units: mg/Kg Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	94	95	80 - 120	2	20		
Barium	98	100	80 - 120	2	20		
Cadmium	94	96	80 - 120	1	20		
Chromium	96	97	80 - 120	1	20		
Lead	94	95	80 - 120	1	20		
Selenium	101	102	80 - 120	1	20		
Silver	96	98	80 - 120	1	20		
Zinc	95	96	80 - 120	1	20		

Client: ERRG Job Number: 720-10373-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-24929 Method: 6010B Preparation: 3050B

MS Lab Sample ID: Client Matrix:

720-10373-1 Solid

Analysis Batch: 720-24938 Prep Batch: 720-24929

Instrument ID: Varian ICP Lab File ID: N/A

Dilution:

1.0

Date Analyzed: 08/17/2007 1552 Date Prepared: 08/17/2007 0706 Initial Weight/Volume: 1.01 g Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10373-1

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: 08/17/2007 1556 Date Prepared: 08/17/2007 0706

Instrument ID: Varian ICP Analysis Batch: 720-24938 Prep Batch: 720-24929 Lab File ID: N/A

> Initial Weight/Volume: 1.04 g Final Weight/Volume: 50 mL

	<u>%</u>	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	77	77	75 - 125	2	20		
Barium	58	61	75 - 125	1	20	F	F
Cadmium	73	70	75 - 125	7	20	F	F
Chromium	86	97	75 - 125	4	20		
Lead	-109	-195	75 - 125	14	20	4	4
Selenium	75	69	75 - 125	12	20		F
Silver	86	85	75 - 125	3	20		
Zinc	216	-10	75 - 125	18	20	4	4

Client: ERRG Job Number: 720-10373-1

Method Blank - Batch: 720-24941 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-24941/1-A Analysis Batch: 720-24978 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-24941 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 08/17/2007 1549 Final Weight/Volume: 50 mL
Date Prepared: 08/17/2007 0952

Analyte Result Qual RL

Mercury ND 0.050

Lab Control Spike/ Method: 7471A
Lab Control Spike Duplicate Recovery Report - Batch: 720-24941 Preparation: 7471A

LCS Lab Sample ID: LCS 720-24941/2-A Analysis Batch: 720-24978 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-24941 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 08/17/2007 1550 Final Weight/Volume: 50 mL Date Prepared: 08/17/2007 0952

LCSD Lab Sample ID: LCSD 720-24941/3-A Analysis Batch: 720-24978 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-24941 Lab File ID: N/A

99

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 08/17/2007 1552 Final Weight/Volume: 50 mL
Date Prepared: 08/17/2007 0952

97

Analyte LCS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual

85 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Mercury

Client: ERRG Job Number: 720-10373-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-24941 Method: 7471A Preparation: 7471A

MS Lab Sample ID: 720-10329-A-35-L MS

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/17/2007 1553 Date Prepared: 08/17/2007 0952

Analysis Batch: 720-24978 Instrument ID: FIMS 100 Prep Batch: 720-24941 Lab File ID:

> Initial Weight/Volume: 0.99 g Final Weight/Volume: 50 mL

N/A

MSD Lab Sample ID: 720-10329-A-35-M MSD Analysis Batch: 720-24978

Client Matrix: Solid

1.0 Dilution:

Date Analyzed: 08/17/2007 1554 Date Prepared: 08/17/2007 0952

Instrument ID: FIMS 100 Prep Batch: 720-24941 Lab File ID: N/A

> Initial Weight/Volume: 0.96 g Final Weight/Volume: 50 mL

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Mercury	100	99	85 - 115	2	20	

720-103737L San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Tyson, affel earng Phone: (925) 484-1919 • Fax: (925) 484-1096
16005C. tucker earng Com Email: sflogin@stl-inc.com

Reference #: 10674 3

Date 6/16/67 Page 1 of Report To Analysis Request Full Tests EPA 8260B; □ Gas □ BTEX □ Five Oxyensies □ DCA, EDB □ Ethano 20 508 RCRA, Volatile Organics GC/MS (VDCs) Low Level Metals by EPA 200.8/8020 (ICP-MS): 8015/8021 C 82608 П Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B Hexavalent Chramlum pH (24h hold lime for H₂O) Alkalinity TDS C DO D SO, D NO, Address: 185 Mason Circle Concos LID CUFT OF 00 PA 8065 Phone: 925250 4056 Email: GC/MS CD 625 CAM17 Metals (EPA 5010/7470/7471) TEPH EPA 8015M" [Diesel Di Motor Oll DO W.E.T (STLC) TCLP Bill To: Sampled By: Spec Cond. TSS Oll and Grease (EPA 1664.) ERRG Inc Metels: Dilead D IA EPA 8270 RR 000 Phone: 4252504056 py. Sample ID Date Time 80 DI PTLF12WS14A-D 8/16/0715:00 X PILF WWS 15A-D 15:15 اي PTLF 12WS 16A-D 15:24 PTLF 12WS 17A-D 15:45 X X PTLFIZW 18A-A + 15:35 54 age Project Info. Sample Receipt 1) Relinquished by: 2) Relinquished by: 3) Relinquished by: Project Name: ALSLF1&2 # of Containers Signature Time Signature Project# Head Space: 27 128 8/16/07 Printed Name Printed Name Temp: Date Printed Name Date EKR6 Credit Card#: Conforms to record Company Company 1) Received by 2) Received by: 3) Received by: 72h 48h Other: Report: D Routine D Level 3 D Level 4 D EDD D State Tank Fund EDF Signature Special Instructions, / Comments: Time Signature Extract for STLC & TCLP and hold Printed Name Printed Name Date Printed Name Date OK By Gurrind See Terms and Conditions on reverse POLY 500-4
*STL SF reports 8015M from C₉-C₂₄ (industry norm). Default for 8015B is C₁₀-C₂₈. Company Company Company

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10373-1

Login Number: 10373

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10373-2

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Surmider Sidhu

Designee for
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
08/22/2007

Job Narrative 720-J10373-2

Comments

No additional comments.

Receipt

Plastic 500ml used for organic analyses.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): . The container labels lists PTLF 12 WS 18A-D. The COC lists PTLF 12W 18A-A. Logged using container label ID, consistant with other sample ID's.

All other samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10373-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10373-1	PTLF 12WS 14A-D				
STLC Citrate Lead Chromium		29 0.65	0.50 0.50	mg/L mg/L	6010B 6010B
TCLP Lead		2.2	0.50	mg/L	6010B
720-10373-2	PTLF 12WS 15A-D				
STLC Citrate Lead Chromium		140 0.89	0.50 0.50	mg/L mg/L	6010B 6010B
TCLP Lead		5.6	0.50	mg/L	6010B
720-10373-3	PTLF 12WS 16A-D				
<i>TCLP</i> Lead		4.3	0.50	mg/L	6010B
720-10373-4	PTLF 12WS 17A-D				
<i>TCLP</i> Lead		21	0.50	mg/L	6010B
720-10373-5	PTLF 12WS 18A-D				
STLC Citrate Lead Chromium		37 0.66	0.50 0.50	mg/L mg/L	6010B 6010B
<i>TCLP</i> Lead		2.7	0.50	mg/L	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-10373-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10373-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10373-1	PTLF 12WS 14A-D	Solid	08/16/2007 1500	08/16/2007 1855
720-10373-2	PTLF 12WS 15A-D	Solid	08/16/2007 1515	08/16/2007 1855
720-10373-3	PTLF 12WS 16A-D	Solid	08/16/2007 1525	08/16/2007 1855
720-10373-4	PTLF 12WS 17A-D	Solid	08/16/2007 1545	08/16/2007 1855
720-10373-5	PTLF 12WS 18A-D	Solid	08/16/2007 1535	08/16/2007 1855

50 mL

50 mL

Client: ERRG Job Number: 720-10373-2

Client Sample ID: PTLF 12WS 14A-D

 Lab Sample ID:
 720-10373-1
 Date Sampled:
 08/16/2007 1500

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Final Weight/Volume:

Final Weight/Volume:

Method:6010BAnalysis Batch: 720-25130Instrument ID:Varian ICPPreparation:3010APrep Batch: 720-25126Lab File ID:N/ADilution:1.0Leachate Batch: 720-25102Initial Weight/Volume:5 mL

Date Analyzed: 08/22/2007 1458
Date Prepared: 08/22/2007 1159
Date Leached: 08/21/2007 1823

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 2.2
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:6010BAnalysis Batch: 720-25009Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-24991Lab File ID:N/ADilution:1.0Leachate Batch: 720-24953Initial Weight/Volume:5 mL

Date Analyzed: 08/20/2007 1000
Date Prepared: 08/20/2007 0800
Date Leached: 08/17/2007 1127

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 29
 0.50

 Chromium
 0.65
 0.50

Client: ERRG Job Number: 720-10373-2

Client Sample ID: PTLF 12WS 15A-D

 Lab Sample ID:
 720-10373-2
 Date Sampled:
 08/16/2007 1515

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Method: Analysis Batch: 720-25130 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25126 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25102 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/22/2007 1502 Date Prepared: 08/22/2007 1159 Date Leached: 08/21/2007 1823

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 5.6
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: 6010B Analysis Batch: 720-25009 Varian ICP Instrument ID: Preparation: 3005A Prep Batch: 720-24991 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-24953 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/20/2007 1004 Date Prepared: 08/20/2007 0800 Date Leached: 08/17/2007 1127

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 140
 0.50

 Chromium
 0.89
 0.50

Client: ERRG Job Number: 720-10373-2

Client Sample ID: PTLF 12WS 16A-D

 Lab Sample ID:
 720-10373-3
 Date Sampled:
 08/16/2007 1525

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-25130 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25126 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25102 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/22/2007 1505
Date Prepared: 08/22/2007 1159
Date Leached: 08/21/2007 1823

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 4.3
 0.50

 Chromium
 ND
 0.50

Client: ERRG Job Number: 720-10373-2

Client Sample ID: PTLF 12WS 17A-D

 Lab Sample ID:
 720-10373-4
 Date Sampled:
 08/16/2007 1545

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-25130 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25126 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25102 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/22/2007 1509
Date Prepared: 08/22/2007 1159
Date Leached: 08/21/2007 1823

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 21
 0.50

 Chromium
 ND
 0.50

Client: ERRG Job Number: 720-10373-2

Client Sample ID: PTLF 12WS 18A-D

 Lab Sample ID:
 720-10373-5
 Date Sampled:
 08/16/2007 1535

 Client Matrix:
 Solid
 Date Received:
 08/16/2007 1855

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Method: Analysis Batch: 720-25130 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25126 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25102 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/22/2007 1523
Date Prepared: 08/22/2007 1159
Date Leached: 08/21/2007 1823

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 2.7
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25009Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-24991Lab File ID:N/ADilution:1.0Leachate Batch: 720-24953Initial Weight/Volume:5 mL

Date Analyzed: 08/20/2007 1015
Date Prepared: 08/20/2007 0800
Date Leached: 08/17/2007 1127

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 37
 0.50

 Chromium
 0.66
 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10373-2

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-24953					
MB 720-24953/1-B	Method Blank	С	Solid	CA WET Citrate	
720-10373-1	PTLF 12WS 14A-D	С	Solid	CA WET Citrate	
720-10373-2	PTLF 12WS 15A-D	С	Solid	CA WET Citrate	
720-10373-5	PTLF 12WS 18A-D	С	Solid	CA WET Citrate	
Prep Batch: 720-24991					
LCS 720-24991/2-A	Lab Control Spike	R	Water	3005A	
LCSD 720-24991/3-A	Lab Control Spike Duplicate	R	Water	3005A	
MB 720-24953/1-B	Method Blank	С	Solid	3005A	720-24953
720-10235-A-5-N MS	Matrix Spike	Č	Solid	3005A	0 0 0 0
720-10235-A-5-O MSD	Matrix Spike Duplicate	Č	Solid	3005A	
720-10373-1	PTLF 12WS 14A-D	Č	Solid	3005A	720-24953
720-10373-2	PTLF 12WS 15A-D	Č	Solid	3005A	720-24953
720-10373-5	PTLF 12WS 18A-D	Č	Solid	3005A	720-24953
720-10373-3	FILE IZWS IOA-D	C	Solid	3003A	720-24933
Analysis Batch:720-25009					
MB 720-24953/1-B	Method Blank	С	Solid	6010B	720-24991
LCS 720-24991/2-A	Lab Control Spike	R	Water	6010B	720-24991
LCSD 720-24991/3-A	Lab Control Spike Duplicate	R	Water	6010B	720-24991
720-10235-A-5-N MS	Matrix Spike	С	Solid	6010B	720-24991
720-10235-A-5-O MSD	Matrix Spike Duplicate	С	Solid	6010B	720-24991
720-10373-1	PTLF 12WS 14A-D	С	Solid	6010B	720-24991
720-10373-2	PTLF 12WS 15A-D	С	Solid	6010B	720-24991
720-10373-5	PTLF 12WS 18A-D	С	Solid	6010B	720-24991
Prep Batch: 720-25102					
MB 720-25102/1-B	Method Blank	Р	Solid	1311	
720-10373-1	PTLF 12WS 14A-D	Р	Solid	1311	
720-10373-2	PTLF 12WS 15A-D	Р	Solid	1311	
720-10373-3	PTLF 12WS 16A-D	Р	Solid	1311	
720-10373-4	PTLF 12WS 17A-D	Р	Solid	1311	
720-10373-5	PTLF 12WS 18A-D	P	Solid	1311	
Prop Ratch: 720 25426					
Prep Batch: 720-25126 LCS 720-25126/2-A	Lab Control Spike	Т	Water	3010A	
LCSD 720-25126/2-A	•		Water	3010A 3010A	
MB 720-25102/1-B	Lab Control Spike Duplicate	T P	Solid		720 25102
	Method Blank			3010A	720-25102
720-10373-1MS	Matrix Spike	Р	Solid	3010A	
720-10373-1MSD	Matrix Spike Duplicate	Р	Solid	3010A	700 05400
720-10373-1	PTLF 12WS 14A-D	Р	Solid	3010A	720-25102
720-10373-2	PTLF 12WS 15A-D	P	Solid	3010A	720-25102
720-10373-3	PTLF 12WS 16A-D	P	Solid	3010A	720-25102
720-10373-4	PTLF 12WS 17A-D	P	Solid	3010A	720-25102
720-10373-5	PTLF 12WS 18A-D	Р	Solid	3010A	720-25102

Client: ERRG Job Number: 720-10373-2

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:720-25	130				
MB 720-25102/1-B	Method Blank	Р	Solid	6010B	720-25126
LCS 720-25126/2-A	Lab Control Spike	Т	Water	6010B	720-25126
LCSD 720-25126/3-A	Lab Control Spike Duplicate	T	Water	6010B	720-25126
720-10373-1	PTLF 12WS 14A-D	Р	Solid	6010B	720-25126
720-10373-1MS	Matrix Spike	Р	Solid	6010B	720-25126
720-10373-1MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-25126
720-10373-2	PTLF 12WS 15A-D	Р	Solid	6010B	720-25126
720-10373-3	PTLF 12WS 16A-D	Р	Solid	6010B	720-25126
720-10373-4	PTLF 12WS 17A-D	Р	Solid	6010B	720-25126
720-10373-5	PTLF 12WS 18A-D	Р	Solid	6010B	720-25126

Report Basis

C = STLC Citrate

P = TCLP

R = Total Recoverable

T = Total

Client: ERRG Job Number: 720-10373-2

Method Blank - Batch: 720-24991

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-24953/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/20/2007 0916 Date Prepared: 08/20/2007 0800

Date Leached: 08/17/2007 1127

Analysis Batch: 720-25009 Prep Batch: 720-24991

Units: mg/L

Leachate Batch: 720-24953

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-24991

Method: 6010B Preparation: 3005A **Total Recoverable**

LCS Lab Sample ID: LCS 720-24991/2-A

Client Matrix:

Water

Dilution: Date Analyzed:

Date Prepared:

1.0

08/20/2007 0920 08/20/2007 0800 Analysis Batch: 720-25009

Prep Batch: 720-24991

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-24991/3-A

Client Matrix:

Water

Dilution: 1.0

Date Analyzed: 08/20/2007 0924 Date Prepared: 08/20/2007 0800 Analysis Batch: 720-25009

Prep Batch: 720-24991

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	104	104	80 - 120	1	20		
Chromium	106	106	80 - 120	1	20		

Client: ERRG Job Number: 720-10373-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-24991

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID:

720-10235-A-5-N MS

Analysis Batch: 720-25009

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-24991

Lab File ID: N/A

Dilution:

1.0

Initial Weight/Volume: 5 mL

Date Analyzed: Date Prepared: 08/20/2007 0927 08/20/2007 0800 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10235-A-5-O MSD

Analysis Batch: 720-25009

Instrument ID: Varian ICP

Client Matrix:

Solid

Lab File ID: N/A

Dilution:

Prep Batch: 720-24991

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: Date Prepared:

1.0

08/20/2007 0931 08/20/2007 0800

% Rec

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	100	102	80 - 120	1	20	
Chromium	102	103	80 - 120	0	20	

0.50

Client: ERRG Job Number: 720-10373-2

Method Blank - Batch: 720-25126 Method: 6010B Preparation: 3010A

TCLP

Lab Sample ID: MB 720-25102/1-B Analysis Ba

Client Matrix: Solid

Dilution: 1.0

Chromium

Date Analyzed: 08/22/2007 1441 Date Prepared: 08/22/2007 1159

Date Leached: 08/21/2007 1823

Analysis Batch: 720-25130 Prep Batch: 720-25126

Leachate Batch: 720-25102

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte Result Qual RL
Lead ND 0.50

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25126 Preparation: 3010A

ND

LCS Lab Sample ID: LCS 720-25126/2-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 08/22/2007 1444 Date Prepared: 08/22/2007 1159 Analysis Batch: 720-25130

Prep Batch: 720-25126

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25126/3-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 08/22/2007 1448 Date Prepared: 08/22/2007 1159 Analysis Batch: 720-25130 Prep Batch: 720-25126

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

	<u>%</u>	Rec.			
Analyte	LCS	LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qual
Lead	91	91	80 - 120	1	20
Chromium	93	94	80 - 120	1	20

Client: ERRG Job Number: 720-10373-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25126

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: 720-10373-1 Client Matrix:

Solid

Analysis Batch: 720-25130 Prep Batch: 720-25126

Instrument ID: Varian ICP

Lab File ID: N/A Initial Weight/Volume: 5 mL

Dilution: 1.0 Date Analyzed:

08/22/2007 1451 Date Prepared: 08/22/2007 1159 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10373-1

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: 08/22/2007 1455 Date Prepared: 08/22/2007 1159 Analysis Batch: 720-25130 Prep Batch: 720-25126

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec

Analyte	MS 70.1	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	89	89	75 - 125	1	20	
Chromium	93	92	75 - 125	1	20	

720-10373-2

Sharma, Dimple

From: Tyson Appel [tyson.appel@errg.com]

Sent: Monday, August 20, 2007 11:35 AM

To: Sharma, Dimple
Cc: Rowan Tucker

Subject: RE: Files from 720-10373-1 AIS-LF 1 & 2

Please Rush STLC and TCLP for chrom and lead for WS14, WS15, and WS18

Please Rush TCLP for chrom and lead for WS16 and WS17

Thanks Tyson

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]

Sent: Monday, August 20, 2007 10:46 AM

To: Rowan Tucker; Tyson Appel

Subject: Files from 720-10373-1 AIS-LF 1 & 2

Dimple Sharma

TestAmerica San Francisco (925) 484-1919 dimple.sharma@testamericainc.com www.testamericainc.com THE LEADER IN ENVIRONMENTAL TESTING

Reference: [015339] Attachments: 1

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10373-2

Login Number: 10373

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10496-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I

Mhar

dimple.sharma@testamericainc.com 08/28/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10496-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 25278 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10496-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10496-5	PTLF12WS1A-D					
4,4'-DDT		14	10	ug/Kg	8081A	
Barium		4.6	0.20	mg/Kg	6010B	
Cadmium		0.14	0.10	mg/Kg	6010B	
Chromium		0.71	0.20	mg/Kg	6010B	
Lead		140	0.20	mg/Kg	6010B	
Zinc		87	0.20	mg/Kg	6010B	
Mercury		0.33	0.050	mg/Kg	7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10496-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS Purge and Trap for Solids	TAL SF TAL SF	SW846 8260B	SW846 5030B
Organochlorine Pesticides by Gas Chromatography Ultrasonic Extraction	TAL SF TAL SF	SW846 8081A	SW846 3550B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography Ultrasonic Extraction	TAL SF TAL SF	SW846 8082	SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10496-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10496-5	PTLF12WS1A-D	Solid	08/24/2007 1200	08/24/2007 1550

Client: ERRG Job Number: 720-10496-1

Client Sample ID: PTLF12WS1A-D

 Lab Sample ID:
 720-10496-5
 Date Sampled:
 08/24/2007
 1200

 Client Matrix:
 Solid
 Date Received:
 08/24/2007
 1550

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.30 g

Date Analyzed: 08/27/2007 1104 Final Weight/Volume: 10.00 mL

Date Prepared: 08/27/2007 0621

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0047
Ethylbenzene		ND		0.0047
Toluene		ND		0.0047
Xylenes, Total		ND		0.0094
Gasoline Range Organics (GRO)	-C5-C12	ND		0.24
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		96		70 - 130
1,2-Dichloroethane-d4 (Surr)		98		60 - 140

Client: ERRG Job Number: 720-10496-1

Client Sample ID: PTLF12WS1A-D

 Lab Sample ID:
 720-10496-5
 Date Sampled:
 08/24/2007
 1200

 Client Matrix:
 Solid
 Date Received:
 08/24/2007
 1550

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A Analysis Batch: 720-25354 Instrument ID: Varian Pest 1

Preparation: 3550B Prep Batch: 720-25212 Lab File ID: N/A

Dilution: 5.0 Initial Weight/Volume: 30.09 g
Date Analyzed: 08/28/2007 0040 Final Weight/Volume: 10 mL

Date Prepared: 08/24/2007 0741 Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Aldrin		ND		10
Dieldrin		ND		10
Endrin aldehyde		ND		10
Endrin		ND		10
Endrin ketone		ND		10
Heptachlor		ND		10
Heptachlor epoxide		ND		10
4,4'-DDT		14		10
4,4'-DDE		ND		10
4,4'-DDD		ND		10
Endosulfan I		ND		10
Endosulfan II		ND		10
alpha-BHC		ND		10
beta-BHC		ND		10
gamma-BHC (Lindane)		ND		10
delta-BHC		ND		10
Endosulfan sulfate		ND		10
Methoxychlor		ND		10
Toxaphene		ND		200
Chlordane (technical)		ND		200
alpha-Chlordane		ND		10
gamma-Chlordane		ND		10
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		82		50 - 125
DCB Decachlorobiphenyl		79		46 - 142

Client: ERRG Job Number: 720-10496-1

Client Sample ID: PTLF12WS1A-D

 Lab Sample ID:
 720-10496-5
 Date Sampled:
 08/24/2007
 1200

 Client Matrix:
 Solid
 Date Received:
 08/24/2007
 1550

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082 Analysis Batch: 720-25335 Instrument ID: Agilent PCB 2

Preparation: 3550B Prep Batch: 720-25273 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.09 g
Date Analyzed: 08/27/2007 1456 Final Weight/Volume: 10 mL

Date Prepared: 08/24/2007 1830 Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		105		46 - 111
DCB Decachlorobiphenyl		69		34 - 106

Client: ERRG Job Number: 720-10496-1

Client Sample ID: PTLF12WS1A-D

 Lab Sample ID:
 720-10496-5
 Date Sampled:
 08/24/2007
 1200

 Client Matrix:
 Solid
 Date Received:
 08/24/2007
 1550

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25297 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-25288 Lab File ID: N/A Leachate Batch: 720-25231 Initial Weight/Volume: Dilution: 1.0 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/27/2007 1630
Date Prepared: 08/27/2007 0858
Date Leached: 08/24/2007 1110

Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RLArsenic ND 0.20 Barium 4.6 0.20 Cadmium 0.14 0.10 Chromium 0.71 0.20 Lead 140 0.20 Selenium ND 0.40 Silver ND 0.20 Zinc 87 0.20

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25331 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g

Date Analyzed: 08/27/2007 1509 Final Weight/Volume: 50 mL Date Prepared: 08/27/2007 1059

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.33 0.050

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10496-1

Lab Section	Qualifier	Description	
GC/MS VOA			
	F	MS or MSD exceeds the control limits	

Client: ERRG Job Number: 720-10496-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-25280					
LCS 720-25280/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-25280/3-A	Lab Control Spike Duplicate	Т	Solid	5030B	
MB 720-25280/1-A	Method Blank	Т	Solid	5030B	
720-10460-A-6-D MS	Matrix Spike	Т	Solid	5030B	
720-10460-A-6-E MSD	Matrix Spike Duplicate	Т	Solid	5030B	
720-10496-5	PTLF12WS1A-D	Т	Solid	5030B	
Analysis Batch:720-25	315				
LCS 720-25280/2-A	Lab Control Spike	Т	Solid	8260B	720-25280
LCSD 720-25280/3-A	Lab Control Spike Duplicate	Т	Solid	8260B	720-25280
MB 720-25280/1-A	Method Blank	Т	Solid	8260B	720-25280
720-10460-A-6-D MS	Matrix Spike	Т	Solid	8260B	720-25280
720-10460-A-6-E MSD	Matrix Spike Duplicate	Т	Solid	8260B	720-25280
720-10496-5	PTLF12WS1A-D	T	Solid	8260B	720-25280

Report Basis

Client: ERRG Job Number: 720-10496-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					_
Prep Batch: 720-25212					
LCS 720-25212/2-A	Lab Control Spike	T	Solid	3550B	
LCSD 720-25212/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 720-25212/1-A	Method Blank	T	Solid	3550B	
720-10496-5	PTLF12WS1A-D	T	Solid	3550B	
Prep Batch: 720-25273					
LCS 720-25273/2-A	Lab Control Spike	Т	Solid	3550B	
LCSD 720-25273/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 720-25273/1-A	Method Blank	T	Solid	3550B	
720-10496-5	PTLF12WS1A-D	T	Solid	3550B	
Analysis Batch:720-25335	5				
LCS 720-25273/2-A	Lab Control Spike	T	Solid	8082	720-25273
LCSD 720-25273/3-A	Lab Control Spike Duplicate	T	Solid	8082	720-25273
MB 720-25273/1-A	Method Blank	T	Solid	8082	720-25273
720-10496-5	PTLF12WS1A-D	T	Solid	8082	720-25273
Analysis Batch:720-25354	.				
LCS 720-25212/2-A	Lab Control Spike	T	Solid	8081A	720-25212
LCSD 720-25212/3-A	Lab Control Spike Duplicate	Т	Solid	8081A	720-25212
MB 720-25212/1-A	Method Blank	Т	Solid	8081A	720-25212
720-10496-5	PTLF12WS1A-D	Т	Solid	8081A	720-25212

Report Basis

Client: ERRG Job Number: 720-10496-1

QC Association Summary

l ah Samula ID	Client Semple ID	Report Basis	Client Matrix	Method	Dron Batch
Lab Sample ID	Client Sample ID	Dasis	Chefft Matrix	Wethou	Prep Batch
Metals					
Prep Batch: 720-25231		_			
MB 720-25231/1-B	Method Blank	T	Solid		
720-10496-5	PTLF12WS1A-D	Т	Solid		
Prep Batch: 720-25288					
LCS 720-25288/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-25288/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
MB 720-25231/1-B	Method Blank	T	Solid	3050B	720-25231
720-10470-A-1-C MS	Matrix Spike	С	Solid	3050B	
720-10470-A-1-D MSD	Matrix Spike Duplicate	С	Solid	3050B	
720-10496-5	PTLF12WS1A-D	Т	Solid	3050B	720-25231
Analysis Batch:720-252	97				
LCS 720-25288/2-A	Lab Control Spike	Т	Solid	6010B	720-25288
LCSD 720-25288/3-A	Lab Control Spike Duplicate	Ť	Solid	6010B	720-25288
MB 720-25231/1-B	Method Blank	Ť	Solid	6010B	720-25288
720-10470-A-1-C MS	Matrix Spike	Ċ	Solid	6010B	720-25288
720-10470-A-1-D MSD	Matrix Spike Duplicate	C	Solid	6010B	720-25288
720-10470-A-1-D M3D 720-10496-5	PTLF12WS1A-D	T	Solid	6010B	720-25288
Dran Batali, 720 25204					
Prep Batch: 720-25301 LCS 720-25301/2-A	Lab Control Spike	Т	Solid	7471A	
LCS 720-25301/2-A LCSD 720-25301/3-A	Lab Control Spike Lab Control Spike Duplicate	T T	Solid	7471A 7471A	
MB 720-25301/1-A	Method Blank	T T	Solid	7471A 7471A	
720-10487-A-1-E MS		T T	Solid	7471A 7471A	
	Matrix Spike Duplicate	T	Solid	747 IA 7471A	
720-10487-A-1-F MSD	Matrix Spike Duplicate				
720-10496-5	PTLF12WS1A-D	Т	Solid	7471A	
Analysis Batch:720-253					
LCS 720-25301/2-A	Lab Control Spike	Т	Solid	7471A	720-25301
LCSD 720-25301/3-A	Lab Control Spike Duplicate	T	Solid	7471A	720-25301
MB 720-25301/1-A	Method Blank	T	Solid	7471A	720-25301
720-10487-A-1-E MS	Matrix Spike	T	Solid	7471A	720-25301
720-10487-A-1-F MSD	Matrix Spike Duplicate	T	Solid	7471A	720-25301
720-10496-5	PTLF12WS1A-D	T	Solid	7471A	720-25301

Report Basis

C = STLC Citrate

Client: ERRG Job Number: 720-10496-1

Method Blank - Batch: 720-25280 Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-25280/1-A Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g

Date Analyzed: 08/27/2007 0948 Final Weight/Volume: 10.00 ml

Date Analyzed: 08/27/2007 0948 Final Weight/Volume: 10.00 mL Date Prepared: 08/27/2007 0621

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Ethylbenzene	ND		0.0050
Toluene	ND		0.0050
Xylenes, Total	ND		0.010
Gasoline Range Organics (GRO)-C5-C12	ND		0.25
Surrogate	% Rec	Acceptance Lim	its
Toluene-d8 (Surr)	104	70 - 130	
1,2-Dichloroethane-d4 (Surr)	92	60 - 140	

Lab Control Spike/ Method: 8260B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25280 Preparation: 5030B

LCS Lab Sample ID: LCS 720-25280/2-A Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g
Date Analyzed: 08/27/2007 0902 Final Weight/Volume: 10.00 mL

LCSD Lab Sample ID: LCSD 720-25280/3-A Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\082

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g
Date Analyzed: 08/27/2007 0925 Final Weight/Volume: 10.00 mL

Date Analyzed: 08/27/2007 0925 Final Weight/Volume: 10.00 mL Date Prepared: 08/27/2007 0621

% Rec. Limit RPD LCS LCSD RPD Limit LCS Qual LCSD Qual Analyte Benzene 82 83 69 - 129 1 20 90 70 - 130 0 20 Toluene 91 Gasoline Range Organics (GRO)-C5-C12 66 60 - 130 20 0 LCS % Rec LCSD % Rec Surrogate Acceptance Limits Toluene-d8 (Surr) 100 97 70 - 130 77 78 60 - 140 1,2-Dichloroethane-d4 (Surr)

Calculations are performed before rounding to avoid round-off errors in calculated results.

Date Prepared:

08/27/2007 0621

Client: ERRG Job Number: 720-10496-1

Matrix Spike/ Method: 8260B
Matrix Spike Duplicate Recovery Report - Batch: 720-25280 Preparation: 5030B

MS Lab Sample ID: 720-10460-A-6-D MS Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\(

Dilution: 1.0 Initial Weight/Volume: 5.53 g

Date Analyzed: 08/27/2007 1148 Final Weight/Volume: 10.00 mL Date Prepared: 08/27/2007 0621

MSD Lab Sample ID: 720-10460-A-6-E MSD Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.41 g

Date Analyzed: 08/27/2007 1210 Final Weight/Volume: 10.00 mL Date Prepared: 08/27/2007 0621

% Rec. MSD RPD MS Qual MSD Qual Analyte MS Limit **RPD Limit** Benzene 78 80 69 - 129 NC 20 Toluene 85 88 70 - 130 NC 20 Gasoline Range Organics (GRO)-C5-C12 55 57 60 - 130 5 20 F Surrogate MS % Rec MSD % Rec Acceptance Limits Toluene-d8 (Surr) 95 103 70 - 130 1,2-Dichloroethane-d4 (Surr) 77 76 60 - 140

Client: ERRG Job Number: 720-10496-1

Method Blank - Batch: 720-25212

Method: 8081A Preparation: 3550B

Lab Sample ID: MB 720-25212/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/28/2007 0557

Date Prepared: 08/24/2007 0741

Analysis Batch: 720-25354 Prep Batch: 720-25212

Units: ug/Kg

Instrument ID: Varian Pest 1

Lab File ID: N/A

Initial Weight/Volume: 30.26 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	RL
Aldrin	ND		2.0
Dieldrin	ND		2.0
Endrin aldehyde	ND		2.0
Endrin	ND		2.0
Endrin ketone	ND		2.0
Heptachlor	ND		2.0
Heptachlor epoxide	ND		2.0
4,4'-DDT	ND		2.0
4,4'-DDE	ND		2.0
4,4'-DDD	ND		2.0
Endosulfan I	ND		2.0
Endosulfan II	ND		2.0
alpha-BHC	ND		2.0
beta-BHC	ND		2.0
gamma-BHC (Lindane)	ND		2.0
delta-BHC	ND		2.0
Endosulfan sulfate	ND		2.0
Methoxychlor	ND		2.0
Toxaphene	ND		40
Chlordane (technical)	ND		40
alpha-Chlordane	ND		2.0
gamma-Chlordane	ND		2.0
Surrogate	% Rec	Acceptance Limits	
Tetrachloro-m-xylene	79	50 - 125	
DCB Decachlorobiphenyl	80	46 - 142	

Client: ERRG Job Number: 720-10496-1

Lab Control Spike/ Method: 8081A
Lab Control Spike Duplicate Recovery Report - Batch: 720-25212 Preparation: 3550B

LCS Lab Sample ID: LCS 720-25212/2-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/28/2007 0617 Date Prepared: 08/24/2007 0741 Analysis Batch: 720-25354 Prep Batch: 720-25212

Units: ug/Kg

Instrument ID: Varian Pest 1

Lab File ID: N/A

Initial Weight/Volume: 30.06 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-25212/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/28/2007 0636 Date Prepared: 08/24/2007 0741 Analysis Batch: 720-25354 Prep Batch: 720-25212

Units: ug/Kg

Instrument ID: Varian Pest 1

Lab File ID: N/A

Initial Weight/Volume: 30.35 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

		% Rec.			
Analyte	LCS	LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qual
Aldrin	87	78	37 - 136	12	35
Dieldrin	86	76	58 - 135	13	35
Endrin	87	75	58 - 134	16	35
Heptachlor	91	82	40 - 136	12	35
4,4'-DDT	84	74	55 - 132	15	35
gamma-BHC (Lindane)	91	82	37 - 137	12	35
Surrogate		LCS % Rec	LCSD %	Rec	Acceptance Limits
Tetrachloro-m-xylene		86	79		50 - 125
DCB Decachlorobiphenyl		89	77		46 - 142

Client: ERRG Job Number: 720-10496-1

Method Blank - Batch: 720-25273

Method: 8082 Preparation: 3550B

Lab Sample ID: MB 720-25273/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/27/2007 1418 Date Prepared: 08/24/2007 1830 Analysis Batch: 720-25335

Prep Batch: 720-25273

Units: ug/Kg

Instrument ID: Agilent PCB 2

Lab File ID: N/A

Initial Weight/Volume: 30.02 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		50
PCB-1221	ND		50
PCB-1232	ND		50
PCB-1242	ND		50
PCB-1248	ND		50
PCB-1254	ND		50
PCB-1260	ND		50
Surrogate	% Rec	Acceptance Limits	
Tetrachloro-m-xylene	74	46 - 111	
DCB Decachlorobiphenyl	67	34 - 106	

Client: ERRG Job Number: 720-10496-1

Lab Control Spike/ Method: 8082
Lab Control Spike Duplicate Recovery Report - Batch: 720-25273 Preparation: 3550B

LCS Lab Sample ID: LCS 720-25273/2-A Analysis Batch: 720-25335 Instrument ID: Agilent PCB 2

Client Matrix: Solid Prep Batch: 720-25273 Lab File ID: N/A

Dilution: 1.0 Units: ug/Kg Initial Weight/Volume: 30.01 g

Date Analyzed: 08/27/2007 1515 Final Weight/Volume: 10 mL

Date Prepared: 08/24/2007 1830 Injection Volume:

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-25273/3-A Analysis Batch: 720-25335 Instrument ID: Agilent PCB 2

Client Matrix: Solid Prep Batch: 720-25273 Lab File ID: N/A

Dilution: 1.0 Units: ug/Kg Initial Weight/Volume: 30.04 g
Date Analyzed: 08/27/2007 1534 Final Weight/Volume: 10 mL

Date Prepared: 08/24/2007 1830 Injection Volume:

Column ID: PRIMARY

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit 79 PCB-1016 81 66 - 116 1 21 PCB-1260 76 57 - 110 5 24 72 Surrogate LCS % Rec LCSD % Rec Acceptance Limits Tetrachloro-m-xylene 86 76 46 - 111 DCB Decachlorobiphenyl 72 75 34 - 106

Client: ERRG Job Number: 720-10496-1

Method Blank - Batch: 720-25288 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-25231/1-B

Analysis Batch: 720-25297

Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25288 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5 mL

Date Analyzed: 08/27/2007 1340

Date Prepared: 08/27/2007 0858

Final Weight/Volume: 50 mL

Date Leached: 08/24/2007 1110 Leachate Batch: 720-25231

Analyte	Result	Qual	RL
Arsenic	ND		0.20
Barium	ND		0.20
Cadmium	ND		0.10
Chromium	ND		0.20
Lead	ND		0.20
Selenium	ND		0.40
Silver	ND		0.20
Zinc	ND		0.20

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25288 Preparation: 3050B

LCS Lab Sample ID: LCS 720-25288/2-A Analysis Batch: 720-25297 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25288 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5 mL

Date Analyzed: 08/27/2007 1343 Final Weight/Volume: 50 ml

Date Analyzed: 08/27/2007 1343 Final Weight/Volume: 50 mL Date Prepared: 08/27/2007 0858

LCSD Lab Sample ID: LCSD 720-25288/3-A Analysis Batch: 720-25297 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25288 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5 mL
Date Analyzed: 08/27/2007 1347 Final Weight/Volume: 50 mL
Date Prepared: 08/27/2007 0858

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit Arsenic 96 97 80 - 120 0 20 80 - 120 Barium 102 102 0 20 80 - 120 Cadmium 100 100 0 20 Chromium 102 80 - 120 20 102 0 Lead 97 97 80 - 120 0 20 Selenium 110 111 80 - 120 1 20 Silver 105 105 80 - 120 0 20 Zinc 103 103 80 - 120 0 20

Client: ERRG Job Number: 720-10496-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25288

Method: 6010B Preparation: 3050B

STLC Citrate

MS Lab Sample ID:

720-10470-A-1-C MS

Analysis Batch: 720-25297

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25288

Lab File ID: N/A

Dilution: Date Analyzed: 1.0

Initial Weight/Volume: 5 mL

Date Prepared:

08/27/2007 1350 08/27/2007 0858

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10470-A-1-D MSD

Analysis Batch: 720-25297

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25288

Lab File ID: N/A

Dilution:

1.0

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/27/2007 1354 Date Prepared: 08/27/2007 0858

% Rec

Analyte	MS 70 IX	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Arsenic	102	101	75 - 125	1	20	
Barium	96	98	75 - 125	1	20	
Cadmium	97	96	75 - 125	1	20	
Chromium	100	100	75 - 125	1	20	
Lead	94	94	75 - 125	1	20	
Selenium	110	109	75 - 125	1	20	
Silver	105	104	75 - 125	1	20	
Zinc	96	95	75 - 125	1	20	

Client: ERRG Job Number: 720-10496-1

Method Blank - Batch: 720-25301 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25301/1-A Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 08/27/2007 1451 Final Weight/Volume: 50 mL
Date Prepared: 08/27/2007 1059

 Analyte
 Result
 Qual
 RL

 Mercury
 ND
 0.050

Lab Control Spike/ Method: 7471A
Lab Control Spike Duplicate Recovery Report - Batch: 720-25301 Preparation: 7471A

LCS Lab Sample ID: LCS 720-25301/2-A Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Ratch: 720-25301 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 08/27/2007 1453 Final Weight/Volume: 50 mL

Date Prepared: 08/27/2007 1059

LCSD Lab Sample ID: LCSD 720-25301/3-A Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

100

Date Analyzed: 08/27/2007 1454 Final Weight/Volume: 50 mL

Date Prepared: 08/27/2007 1059

101

Analyte LCS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual

85 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Mercury

Client: ERRG Job Number: 720-10496-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-25301 Preparation: 7471A

MS Lab Sample ID: 720-10487-A-1-E MS Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 1.04 g

Date Analyzed: 08/27/2007 1455 Final Weight/Volume: 50 mL Date Prepared: 08/27/2007 1059

MSD Lab Sample ID: 720-10487-A-1-F MSD Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.05 g

Date Analyzed: 08/27/2007 1456 Final Weight/Volume: 50 mL Date Prepared: 08/27/2007 1059

 MS
 MSD
 Limit
 RPD
 RPD Limit
 MS Qual
 MSD Qual

 Mercury
 102
 101
 85 - 115
 1
 20

RUSH

STL San Francisco Chain of Custody 1220 Quarry Lane • Pleasanton CA 94566-4756

SEVERN

CTTO

*STL SF reports 8015M from Cg-Cg+ (industry norm). Default for 8015B is Ctg-Cgs

Company

Rev 06/04

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Company

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10496-1

Login Number: 10496

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	COMP 4:1



ANALYTICAL REPORT

Job Number: 720-10496-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma

Mhar

Project Manager I

dimple.sharma@testamericainc.com

09/04/2007

Revision: 1

cc: Mr. Goose Tucker

Job Narrative 720-J10496-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 25278 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10496-1

Lab Sample ID	Client Sample ID		Reporting		
Analyte		Result / Qualifier	Limit	Units	Method
720-10496-5	PTLF12WS19 A-D				
4,4'-DDT		14	10	ug/Kg	8081A
Arsenic		4.2	0.95	mg/Kg	6010B
Barium		270	0.95	mg/Kg	6010B
Cadmium		0.65	0.48	mg/Kg	6010B
Chromium		170	0.95	mg/Kg	6010B
Lead		610	0.95	mg/Kg	6010B
Silver		3.0	0.95	mg/Kg	6010B
Zinc		650	0.95	mg/Kg	6010B
Mercury		0.33	0.050	mg/Kg	7471A

METHOD SUMMARY

Client: ERRG Job Number: 720-10496-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS Purge and Trap for Solids	TAL SF TAL SF	SW846 8260B	SW846 5030B
Organochlorine Pesticides by Gas Chromatography Ultrasonic Extraction	TAL SF TAL SF	SW846 8081A	SW846 3550B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography Ultrasonic Extraction	TAL SF TAL SF	SW846 8082	SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ERRG Job Number: 720-10496-1

Method	Analyst	Analyst ID
SW846 8260B	Ali, Badri	ВА
SW846 8081A	Lew, Matthew	MLEW
SW846 8082	Lew, Matthew	MLEW
SW846 6010B	Pagba, Janice	JP
SW846 7471A	Pagba, Janice	JP

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10496-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10496-5	PTLF12WS19 A-D	Solid	08/24/2007 1200	08/24/2007 1550

Client: ERRG Job Number: 720-10496-1

Client Sample ID: PTLF12WS19 A-D

 Lab Sample ID:
 720-10496-5
 Date Sampled:
 08/24/2007
 1200

 Client Matrix:
 Solid
 Date Received:
 08/24/2007
 1550

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.30 g

Date Analyzed: 08/27/2007 1104 Final Weight/Volume: 10.00 mL

Date Prepared: 08/27/2007 0621

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0047
Ethylbenzene		ND		0.0047
Toluene		ND		0.0047
Xylenes, Total		ND		0.0094
Gasoline Range Organics (GRO))-C5-C12	ND		0.24
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		96		70 - 130
1,2-Dichloroethane-d4 (Surr)		98		60 - 140

Client: ERRG Job Number: 720-10496-1

Client Sample ID: PTLF12WS19 A-D

 Lab Sample ID:
 720-10496-5
 Date Sampled:
 08/24/2007
 1200

 Client Matrix:
 Solid
 Date Received:
 08/24/2007
 1550

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A Analysis Batch: 720-25354 Instrument ID: Varian Pest 1

Preparation: 3550B Prep Batch: 720-25212 Lab File ID: N/A

Dilution: 5.0 Initial Weight/Volume: 30.09 g
Date Analyzed: 08/28/2007 0040 Final Weight/Volume: 10 mL

Date Prepared: 08/24/2007 0741 Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Aldrin		ND		10
Dieldrin		ND		10
Endrin aldehyde		ND		10
Endrin		ND		10
Endrin ketone		ND		10
Heptachlor		ND		10
Heptachlor epoxide		ND		10
4,4'-DDT		14		10
4,4'-DDE		ND		10
4,4'-DDD		ND		10
Endosulfan I		ND		10
Endosulfan II		ND		10
alpha-BHC		ND		10
beta-BHC		ND		10
gamma-BHC (Lindane)		ND		10
delta-BHC		ND		10
Endosulfan sulfate		ND		10
Methoxychlor		ND		10
Toxaphene		ND		200
Chlordane (technical)		ND		200
alpha-Chlordane		ND		10
gamma-Chlordane		ND		10
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		82		50 - 125
DCB Decachlorobiphenyl		79		46 - 142

Client: ERRG Job Number: 720-10496-1

Client Sample ID: PTLF12WS19 A-D

Lab Sample ID: 720-10496-5 Date Sampled: 08/24/2007 1200 Client Matrix: Solid Date Received: 08/24/2007 1550

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

8082 Analysis Batch: 720-25335 Agilent PCB 2 Method: Instrument ID:

Preparation: 3550B Prep Batch: 720-25273 N/A Lab File ID:

Dilution: 1.0 Initial Weight/Volume: 30.09 g

Date Analyzed: 08/27/2007 1456 Final Weight/Volume: 10 mL

Date Prepared: 08/24/2007 1830 Injection Volume:

Column ID: **PRIMARY**

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		105		46 - 111

Client: ERRG Job Number: 720-10496-1

Client Sample ID: PTLF12WS19 A-D

 Lab Sample ID:
 720-10496-5
 Date Sampled:
 08/24/2007
 1200

 Client Matrix:
 Solid
 Date Received:
 08/24/2007
 1550

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25297 Instrument ID: Varian ICP

Preparation: 3050B Prep Batch: 720-25278 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.05 g

Date Analyzed: 08/27/2007 1738 Final Weight/Volume: 50 mL

Date Prepared: 08/24/2007 2034

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.2		0.95
Barium		270		0.95
Cadmium		0.65		0.48
Chromium		170		0.95
Lead		610		0.95
Selenium		ND		1.9
Silver		3.0		0.95
Zinc		650		0.95

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25331 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g

Date Analyzed: 08/27/2007 1509 Final Weight/Volume: 50 mL Date Prepared: 08/27/2007 1059

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.33 0.050

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10496-1

Lab Section	Qualifier	Description	
GC/MS VOA			
	F	MS or MSD exceeds the control limits	

Client: ERRG Job Number: 720-10496-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-25280					
LCS 720-25280/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-25280/3-A	Lab Control Spike Duplicate	Т	Solid	5030B	
MB 720-25280/1-A	Method Blank	Т	Solid	5030B	
720-10460-A-6-D MS	Matrix Spike	Т	Solid	5030B	
720-10460-A-6-E MSD	Matrix Spike Duplicate	Т	Solid	5030B	
720-10496-5	PTLF12WS19 A-D	Т	Solid	5030B	
Analysis Batch:720-25	315				
LCS 720-25280/2-A	Lab Control Spike	Т	Solid	8260B	720-25280
LCSD 720-25280/3-A	Lab Control Spike Duplicate	Т	Solid	8260B	720-25280
MB 720-25280/1-A	Method Blank	Т	Solid	8260B	720-25280
720-10460-A-6-D MS	Matrix Spike	Т	Solid	8260B	720-25280
720-10460-A-6-E MSD	Matrix Spike Duplicate	Т	Solid	8260B	720-25280
720-10496-5	PTLF12WS19 A-D	Т	Solid	8260B	720-25280

Report Basis

Client: ERRG Job Number: 720-10496-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-25212					
LCS 720-25212/2-A	Lab Control Spike	Т	Solid	3550B	
LCSD 720-25212/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 720-25212/1-A	Method Blank	T	Solid	3550B	
720-10496-5	PTLF12WS19 A-D	T	Solid	3550B	
Prep Batch: 720-25273					
LCS 720-25273/2-A	Lab Control Spike	Т	Solid	3550B	
LCSD 720-25273/3-A	Lab Control Spike Duplicate	Т	Solid	3550B	
MB 720-25273/1-A	Method Blank	Т	Solid	3550B	
720-10496-5	PTLF12WS19 A-D	T	Solid	3550B	
Analysis Batch:720-2533	5				
LCS 720-25273/2-A	Lab Control Spike	T	Solid	8082	720-25273
LCSD 720-25273/3-A	Lab Control Spike Duplicate	T	Solid	8082	720-25273
MB 720-25273/1-A	Method Blank	Т	Solid	8082	720-25273
720-10496-5	PTLF12WS19 A-D	Т	Solid	8082	720-25273
Analysis Batch:720-2535	4				
LCS 720-25212/2-A	Lab Control Spike	Т	Solid	8081A	720-25212
LCSD 720-25212/3-A	Lab Control Spike Duplicate	Т	Solid	8081A	720-25212
MB 720-25212/1-A	Method Blank	Ť	Solid	8081A	720-25212
720-10496-5	PTLF12WS19 A-D	Ť	Solid	8081A	720-25212

Report Basis

Client: ERRG Job Number: 720-10496-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25278 720-10496-5	PTLF12WS19 A-D	Т	Solid	3050B	
Analysis Batch:720-25297 720-10496-5	PTLF12WS19 A-D	Т	Solid	6010B	720-25278
Prep Batch: 720-25301		-	0.11.1	7.74	
LCS 720-25301/2-A LCSD 720-25301/3-A	Lab Control Spike Lab Control Spike Duplicate	T T	Solid Solid	7471A 7471A	
MB 720-25301/1-A	Method Blank	, T	Solid	7471A 7471A	
720-10487-A-1-E MS	Matrix Spike	Ť	Solid	7471A	
720-10487-A-1-F MSD	Matrix Spike Duplicate	Т	Solid	7471A	
720-10496-5	PTLF12WS19 A-D	T	Solid	7471A	
Analysis Batch:720-25331	I				
LCS 720-25301/2-A	Lab Control Spike	T	Solid	7471A	720-25301
LCSD 720-25301/3-A	Lab Control Spike Duplicate	T	Solid	7471A	720-25301
MB 720-25301/1-A	Method Blank	T	Solid	7471A	720-25301
720-10487-A-1-E MS	Matrix Spike	Т	Solid	7471A	720-25301
720-10487-A-1-F MSD	Matrix Spike Duplicate	Т	Solid	7471A	720-25301
720-10496-5	PTLF12WS19 A-D	T	Solid	7471A	720-25301

Report Basis

Client: ERRG Job Number: 720-10496-1

Method Blank - Batch: 720-25280 Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-25280/1-A Instrument ID: Varian 3900E Analysis Batch: 720-25315

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g

Final Weight/Volume: 10.00 mL Date Analyzed: 08/27/2007 0948 Date Prepared: 08/27/2007 0621

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Ethylbenzene	ND		0.0050
Toluene	ND		0.0050
Xylenes, Total	ND		0.010
Gasoline Range Organics (GRO)-C5-C12	ND		0.25
Surrogate	% Rec	Acceptance Limits	S
Toluene-d8 (Surr)	104	70 - 130	
1,2-Dichloroethane-d4 (Surr)	92	60 - 140	

Lab Control Spike/ Method: 8260B Lab Control Spike Duplicate Recovery Report - Batch: 720-25280 Preparation: 5030B

LCS Lab Sample ID: LCS 720-25280/2-A Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\0{

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g 08/27/2007 0902 Final Weight/Volume: 10.00 mL Date Analyzed:

LCSD Lab Sample ID: LCSD 720-25280/3-A Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\082

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g

08/27/2007 0925 Final Weight/Volume: 10.00 mL Date Analyzed: Date Prepared: 08/27/2007 0621

% Rec. LCS LCSD **RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit Benzene 82 83 69 - 129 1 20 90 70 - 130 0 20 Toluene 91 Gasoline Range Organics (GRO)-C5-C12 66 60 - 130 20 0 LCS % Rec LCSD % Rec Surrogate Acceptance Limits Toluene-d8 (Surr) 100 97 70 - 130 77 78 60 - 140 1,2-Dichloroethane-d4 (Surr)

Calculations are performed before rounding to avoid round-off errors in calculated results.

Date Prepared:

08/27/2007 0621

Client: ERRG Job Number: 720-10496-1

Matrix Spike/ Method: 8260B
Matrix Spike Duplicate Recovery Report - Batch: 720-25280 Preparation: 5030B

MS Lab Sample ID: 720-10460-A-6-D MS Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\(

Dilution: 1.0 Initial Weight/Volume: 5.53 g

Date Analyzed: 08/27/2007 1148 Final Weight/Volume: 10.00 mL Date Prepared: 08/27/2007 0621

MSD Lab Sample ID: 720-10460-A-6-E MSD Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\0\\

Dilution: 1.0 Initial Weight/Volume: 5.41 g

Date Analyzed: 08/27/2007 1210 Final Weight/Volume: 10.00 mL

Date Prepared: 08/27/2007 0621

% Rec. MSD RPD MS Qual MSD Qual Analyte MS Limit **RPD Limit** Benzene 78 80 69 - 129 4 20 Toluene 85 88 70 - 130 6 20 Gasoline Range Organics (GRO)-C5-C12 55 57 60 - 130 5 20 F Surrogate MS % Rec MSD % Rec Acceptance Limits Toluene-d8 (Surr) 95 103 70 - 130 1,2-Dichloroethane-d4 (Surr) 77 76 60 - 140

Client: ERRG Job Number: 720-10496-1

Method Blank - Batch: 720-25212

Method: 8081A Preparation: 3550B

Lab Sample ID: MB 720-25212/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/28/2007 0557

Date Prepared: 08/24/2007 0741

Analysis Batch: 720-25354 Prep Batch: 720-25212

Tep Baton. 120-2

Units: ug/Kg

Instrument ID: Varian Pest 1

Lab File ID: N/A

Initial Weight/Volume: 30.26 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	RL
Aldrin	ND		2.0
Dieldrin	ND		2.0
Endrin aldehyde	ND		2.0
Endrin	ND		2.0
Endrin ketone	ND		2.0
Heptachlor	ND		2.0
Heptachlor epoxide	ND		2.0
4,4'-DDT	ND		2.0
4,4'-DDE	ND		2.0
4,4'-DDD	ND		2.0
Endosulfan I	ND		2.0
Endosulfan II	ND		2.0
alpha-BHC	ND		2.0
beta-BHC	ND		2.0
gamma-BHC (Lindane)	ND		2.0
delta-BHC	ND		2.0
Endosulfan sulfate	ND		2.0
Methoxychlor	ND		2.0
Toxaphene	ND		40
Chlordane (technical)	ND		40
alpha-Chlordane	ND		2.0
gamma-Chlordane	ND		2.0
Surrogate	% Rec	Acceptance Limits	S
Tetrachloro-m-xylene	79	50 - 125	
DCB Decachlorobiphenyl	80	46 - 142	

Client: ERRG Job Number: 720-10496-1

Lab Control Spike/ Method: 8081A
Lab Control Spike Duplicate Recovery Report - Batch: 720-25212 Preparation: 3550B

LCS Lab Sample ID: LCS 720-25212/2-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/28/2007 0617 Date Prepared: 08/24/2007 0741 Analysis Batch: 720-25354 Prep Batch: 720-25212

Units: ug/Kg

Instrument ID: Varian Pest 1

Lab File ID: N/A

Initial Weight/Volume: 30.06 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-25212/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/28/2007 0636 Date Prepared: 08/24/2007 0741 Analysis Batch: 720-25354 Prep Batch: 720-25212

Units: ug/Kg

Instrument ID: Varian Pest 1

Lab File ID: N/A

Initial Weight/Volume: 30.35 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

<u>% Rec.</u>							
Analyte	LCS	LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qual		
Aldrin	87	78	37 - 136	12	35		
Dieldrin	86	76	58 - 135	13	35		
Endrin	87	75	58 - 134	16	35		
Heptachlor	91	82	40 - 136	12	35		
4,4'-DDT	84	74	55 - 132	15	35		
gamma-BHC (Lindane)	91	82	37 - 137	12	35		
Surrogate		LCS % Rec	% Rec LCSD % Rec		Acceptance Limits		
Tetrachloro-m-xylene		86	79		50 - 125		
DCB Decachlorobiphenyl		89	77 46 - 142				

Client: ERRG Job Number: 720-10496-1

Method Blank - Batch: 720-25273

Method: 8082 Preparation: 3550B

Lab Sample ID: MB 720-25273/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/27/2007 1418 Date Prepared: 08/24/2007 1830 Analysis Batch: 720-25335

Prep Batch: 720-25273

Units: ug/Kg

Instrument ID: Agilent PCB 2

Lab File ID: N/A

Initial Weight/Volume: 30.02 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		50
PCB-1221	ND		50
PCB-1232	ND		50
PCB-1242	ND		50
PCB-1248	ND		50
PCB-1254	ND		50
PCB-1260	ND		50
Surrogate	% Rec	Acceptance Limits	
Tetrachloro-m-xylene	74	46 - 111	
DCB Decachlorobiphenyl	67	34 - 106	

Client: ERRG Job Number: 720-10496-1

Lab Control Spike/ Method: 8082 Lab Control Spike Duplicate Recovery Report - Batch: 720-25273 Preparation: 3550B

LCS Lab Sample ID: LCS 720-25273/2-A Analysis Batch: 720-25335 Instrument ID: Agilent PCB 2

Prep Batch: 720-25273 Client Matrix: Solid Lab File ID: N/A

Units: ug/Kg Initial Weight/Volume: Dilution: 1.0

30.01 g Date Analyzed: 08/27/2007 1515 Final Weight/Volume: 10 mL

Date Prepared: 08/24/2007 1830 Injection Volume:

Column ID: **PRIMARY**

LCSD Lab Sample ID: LCSD 720-25273/3-A Analysis Batch: 720-25335 Instrument ID: Agilent PCB 2

Client Matrix: Solid Prep Batch: 720-25273 Lab File ID: N/A

Dilution: 1.0 Units: ug/Kg Initial Weight/Volume: 30.04 g 08/27/2007 1534 Final Weight/Volume: 10 mL Date Analyzed:

Date Prepared: 08/24/2007 1830 Injection Volume:

Column ID: **PRIMARY**

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit 79 PCB-1016 81 66 - 116 1 21 PCB-1260 76 57 - 110 5 24 72 Surrogate LCS % Rec LCSD % Rec Acceptance Limits Tetrachloro-m-xylene 86 76 46 - 111 DCB Decachlorobiphenyl 72 75 34 - 106

Client: ERRG Job Number: 720-10496-1

Method Blank - Batch: 720-25301 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25301/1-A Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A

Units: mg/Kg Dilution: 1.0 Initial Weight/Volume: 1 g Date Analyzed: 08/27/2007 1451 Final Weight/Volume: 50 mL Date Prepared: 08/27/2007 1059

Result Qual RL Analyte Mercury ND 0.050

Lab Control Spike/ Method: 7471A

Lab Control Spike Duplicate Recovery Report - Batch: 720-25301 Preparation: 7471A

LCS Lab Sample ID: LCS 720-25301/2-A Instrument ID: FIMS 100 Analysis Batch: 720-25331

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

08/27/2007 1453 Final Weight/Volume: Date Analyzed: 50 mL 08/27/2007 1059 Date Prepared:

LCSD Lab Sample ID: LCSD 720-25301/3-A Analysis Batch: 720-25331 Instrument ID: **FIMS 100**

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g 08/27/2007 1454 Date Analyzed:

Final Weight/Volume: 50 mL Date Prepared: 08/27/2007 1059

% Rec. Analyte LCS LCSD Limit **RPD** RPD Limit LCS Qual LCSD Qual Mercury 100 101 85 - 115

Client: ERRG Job Number: 720-10496-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-25301 Preparation: 7471A

MS Lab Sample ID: 720-10487-A-1-E MS Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 08/27/2007 1455 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10487-A-1-F MSD Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 1.05 g

Date Analyzed: 08/27/2007 1456 Final Weight/Volume: 50 mL

Date Prepared: 08/27/2007 1059

 MS
 MSD
 Limit
 RPD
 RPD Limit
 MS Qual
 MSD Qual

 Mercury
 102
 101
 85 - 115
 1
 20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Date Prepared:

08/27/2007 1059

RUSH

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SEVERN

STL San Francisco Chain of Custody

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BEALDERACE STREET	100	-/	V	77	76	ail	sfloc	nin@s	tl-inc	.com	404-	1030			Date	82	4/07	_ Pa	ige	of \	
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Bill To:	Sampled By:	C 60158021	Purgeable Aromatics BTEX EPA - □ 8021 □ 8250B	TEPH EPA 8015M* □ Silica Gel □ Diesel □ Motor Oil □ Other	Fuel Tests EPA 8260B: CI Gas CI BTEX CI Five Oxyenates CI DCA, EDB CI Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs)	Semivolatiles GC/MS CI EPA 8270 CI 625	Oil and Grease D Petroloum (EPA 1664) D Total	日口	D 8270 D	CAM17 Metals (EPA 6010/7470/7471)	Metals: D Lead D LUFT D Other:	Low Level Metals by EPA 200.6/5020 (ICP-MS):	WET (STIC) Halp	Hoxavalent Chromium pH (24h hold time for H ₂ O)	Spec Cond.	000	00		Contai
Attn:	Phone:	EPA.	eable	1EPA	ests Ef e Oxye	aable OCs) E	lle Org	volatil PA 82	ad Gre	Pesticides PCBs	À	17 Me 6010/	s: D 1	evel (MS):	W.E.1	Hexa PH (2	Spec	0.0	4		er of (
Sample ID	Date Time Mat Pres	TPH EPA IT Gas w/	Pung BTE)	1EP	Fuel T	Purg (HVC	Volat D EI	Semi D E	Oll ar	Pesti	PNAs by	CAM (EPA	Metal	Low I	80	00	00	Anions:	K		Numb
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Project Name: Prosidin ANS	# of Containers:		-	Signati	ura			Time	1246	Sign	atore	16		15	50 me	- 3	gnature	_		Time	
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Report: ☐ Routine ☐ Level 3 Special Instructions / Comments:			_	Signal			195	Time 8/21	e /	1	ature R H	4	*	01	me //		gnature			Time	======
Extract for To	2	Hold C)	Printed	Name A L		14.0	Dat	te		led Nar			47	ate (Pr	inted Na	ame		Date	
Composit 4 P	14 4 5) - [Compa				_		Com	pany	71				Co	mpany				- 55
*STL SF reports 8015M from C ₉ -C	Cat (Industry norm). Default for	8015B is	C10-C28																	B)	econ se

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10496-1

Login Number: 10496

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	COMP 4:1



ANALYTICAL REPORT

Job Number: 720-10496-2

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel



Designee for
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
08/29/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10496-2

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General ChemistryNo analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10496-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10496-5	PTLF12WS19 A-D				
<i>STLC Citrate</i> Lead		140	0.50	mg/L	6010B
<i>TCLP</i> Lead		3.2	0.50	mg/L	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-10496-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10496-2

	011 10 110	011 (14 (1	Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10496-5	PTLF12WS19 A-D	Solid	08/24/2007 1200	08/24/2007 1550

50 mL

50 mL

Final Weight/Volume:

Client: ERRG Job Number: 720-10496-2

Client Sample ID: PTLF12WS19 A-D

 Lab Sample ID:
 720-10496-5
 Date Sampled:
 08/24/2007
 1200

 Client Matrix:
 Solid
 Date Received:
 08/24/2007
 1550

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:6010BAnalysis Batch: 720-25419Instrument ID:Varian ICPPreparation:3010APrep Batch: 720-25422Lab File ID:N/ADilution:1.0Leachate Batch: 720-25403Initial Weight/Volume:5 mL

 Dilution:
 1.0
 Leachate Batch: 720-25403
 Initial Weight/Volume:

 Date Analyzed:
 08/29/2007 1429
 Final Weight/Volume:

 Date Prepared:
 08/29/2007 1006

 Date Leached:
 08/28/2007 1740

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 3.2 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:6010BAnalysis Batch: 720-25297Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-25288Lab File ID:N/ADilution:1.0Leachate Batch: 720-25231Initial Weight/Volume:5 mL

Date Analyzed: 08/27/2007 1630

Date Prepared: 08/27/2007 0858

Date Leached: 08/24/2007 1110

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 140 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10496-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals	·				-
Prep Batch: 720-25231					
MB 720-25231/1-B	Method Blank	С	Solid	CA WET Citrate	
720-10496-5	PTLF12WS19 A-D	С	Solid	CA WET Citrate	
Prep Batch: 720-25288					
LCS 720-25288/2-A	Lab Control Spike	R	Water	3005A	
LCSD 720-25288/3-A	Lab Control Spike Duplicate	R	Water	3005A	
MB 720-25231/1-B	Method Blank	С	Solid	3005A	720-25231
720-10470-A-1-C MS	Matrix Spike	С	Solid	3005A	
720-10470-A-1-D MSD	Matrix Spike Duplicate	С	Solid	3005A	
720-10496-5	PTLF12WS19 A-D	С	Solid	3005A	720-25231
Analysis Batch:720-25297	7				
MB 720-25231/1-B	Method Blank	С	Solid	6010B	720-25288
LCS 720-25288/2-A	Lab Control Spike	R	Water	6010B	720-25288
LCSD 720-25288/3-A	Lab Control Spike Duplicate	R	Water	6010B	720-25288
720-10470-A-1-C MS	Matrix Spike	С	Solid	6010B	720-25288
720-10470-A-1-D MSD	Matrix Spike Duplicate	С	Solid	6010B	720-25288
720-10496-5	PTLF12WS19 A-D	С	Solid	6010B	720-25288
Prep Batch: 720-25403					
MB 720-25403/1-B	Method Blank	Р	Solid	1311	
720-10496-5	PTLF12WS19 A-D	Р	Solid	1311	
Analysis Batch:720-25419	9				
MB 720-25403/1-B	Method Blank	Р	Solid	6010B	720-25422
LCS 720-25422/2-A	Lab Control Spike	T	Water	6010B	720-25422
LCSD 720-25422/3-A	Lab Control Spike Duplicate	Т	Water	6010B	720-25422
720-10496-5	PTLF12WS19 A-D	Р	Solid	6010B	720-25422
720-10507-A-5-I MS	Matrix Spike	Р	Solid	6010B	720-25422
720-10507-A-5-J MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-25422
Prep Batch: 720-25422					
LCS 720-25422/2-A	Lab Control Spike	Т	Water	3010A	
LCSD 720-25422/3-A	Lab Control Spike Duplicate	Ť	Water	3010A	
MB 720-25403/1-B	Method Blank	Р	Solid	3010A	720-25403
720-10496-5	PTLF12WS19 A-D	Р	Solid	3010A	720-25403
720-10507-A-5-I MS	Matrix Spike	Р	Solid	3010A	
720-10507-A-5-J MSD	Matrix Spike Duplicate	Р	Solid	3010A	

Report Basis

C = STLC Citrate

P = TCLP

R = Total Recoverable

T = Total

TestAmerica San Francisco

Client: ERRG Job Number: 720-10496-2

Method Blank - Batch: 720-25288

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-25231/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/27/2007 1340 Date Prepared: 08/27/2007 0858

Date Leached: 08/24/2007 1110

Leachate Batch: 720-25231

Analysis Batch: 720-25297

Prep Batch: 720-25288

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

RL Analyte Result Qual Lead ND 0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-25288

Method: 6010B Preparation: 3005A **Total Recoverable**

LCS Lab Sample ID: LCS 720-25288/2-A

Client Matrix: Water Dilution: 1.0

Date Analyzed:

08/27/2007 1343 Date Prepared: 08/27/2007 0858 Analysis Batch: 720-25297

Prep Batch: 720-25288

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25288/3-A

Client Matrix: Water Dilution: 1.0

08/27/2007 1347 Date Analyzed: Date Prepared: 08/27/2007 0858 Analysis Batch: 720-25297

Prep Batch: 720-25288

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte LCS LCSD Limit **RPD** RPD Limit LCS Qual LCSD Qual Lead 97 97 80 - 120 0

Client: ERRG Job Number: 720-10496-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25288

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID: 720-10470-A-1-C MS

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/27/2007 1350 Date Prepared: 08/27/2007 0858 Analysis Batch: 720-25297 Instrument ID: Varian ICP Prep Batch: 720-25288 Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10470-A-1-D MSD Analysis Batch: 720-25297 Instrument ID: Varian ICP

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/27/2007 1354 Date Prepared: 08/27/2007 0858 Analysis Batch: 720-25297 Instrument ID: Varian ICP Prep Batch: 720-25288 Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

<u>% Rec.</u>

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	94	94	80 - 120	1	20	

Client: ERRG Job Number: 720-10496-2

Method Blank - Batch: 720-25422 Method: 6010B Preparation: 3010A

TCLP

Lab Sample ID: MB 720-25403/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/29/2007 1323 Date Prepared: 08/29/2007 1006

Date Leached: 08/28/2007 1740

Analysis Batch: 720-25419 Prep Batch: 720-25422

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

> Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-25403

RL Analyte Result Qual Lead ND 0.50

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-25422 Preparation: 3010A

LCS Lab Sample ID: LCS 720-25422/2-A

Client Matrix: Water Dilution: 1.0

Date Analyzed:

08/29/2007 1327 08/29/2007 1006 Date Prepared:

Analysis Batch: 720-25419 Prep Batch: 720-25422

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25422/3-A

Client Matrix: Water Dilution: 1.0

08/29/2007 1331 Date Analyzed: Date Prepared: 08/29/2007 1006 Analysis Batch: 720-25419

Prep Batch: 720-25422

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte LCS LCSD Limit **RPD** RPD Limit LCS Qual LCSD Qual Lead 91 92 80 - 120

Client: ERRG Job Number: 720-10496-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25422

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: 720-10507-A-5-I MS

Client Matrix: Solid
Dilution: 1.0

Date Analyzed: 08/29/2007 1334 Date Prepared: 08/29/2007 1006 Analysis Batch: 720-25419

Prep Batch: 720-25422

Instrument ID: Varian ICP
Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10507-A-5-J MSD

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/29/2007 1338 Date Prepared: 08/29/2007 1006 Analysis Batch: 720-25419 Instru

Prep Batch: 720-25422

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	92	87	75 - 125	3	20	

120-10496-2

Sharma, Dimple

From: Tyson Appel [tyson.appel@errg.com]

Sent: Monday, August 27, 2007 6:54 PM To:

Sharma, Dimple: Rowan Tucker

Subject: RE: Files from 720-10496-1 AIS-LF 1 & 2

That should be sample ID PTLF12WS19 A-D. Please change.

Also, Please rush STLC and TCLP Lead

Thanks Tyson

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]

Sent: Monday, August 27, 2007 6:51 PM

To: Rowan Tucker; Tyson Appel

Subject: Files from 720-10496-1 AIS-LF 1 & 2

Dimple Sharma

TestAmerica San Francisco (925) 484-1919 dimple.sharma@testamericainc.com www.testamericainc.com THE LEADER IN ENVIRONMENTAL TESTING

Reference: [015685] Attachments: 2

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10496-2

Login Number: 10496

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	COMP 4:1



ANALYTICAL REPORT

Job Number: 720-10507-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I

Mhar

dimple.sharma@testamericainc.com

08/28/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10507-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 25314 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10507-1

Lab Sample ID	Client Sample ID		Reporting		
Analyte		Result / Qualifier	Limit	Units	Method
720-10507-5	PTLF12 WS20-A,B,C	;,D			
Diesel Range Orga	nics [C10-C28]	16	0.99	mg/Kg	8015B
Motor Oil Range Oi	rganics [C24-C36]	76	50	mg/Kg	8015B
Arsenic		10	0.97	mg/Kg	6010B
Barium		330	0.97	mg/Kg	6010B
Cadmium		1.2	0.49	mg/Kg	6010B
Chromium		210	0.97	mg/Kg	6010B
Lead		1000	0.97	mg/Kg	6010B
Silver		4.9	0.97	mg/Kg	6010B
Zinc		1200	0.97	mg/Kg	6010B
Mercury		0.57	0.051	mg/Kg	7471A

METHOD SUMMARY

Client: ERRG Job Number: 720-10507-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS Purge and Trap for Solids	TAL SF TAL SF	SW846 8260B	SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) Ultrasonic Extraction	TAL SF	SW846 8015B	SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10507-1

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10507-5	PTLF12 WS20-A,B,C,D	Solid	08/25/2007 1158	08/27/2007 0803

Client: ERRG Job Number: 720-10507-1

Client Sample ID: PTLF12 WS20-A,B,C,D

 Lab Sample ID:
 720-10507-5
 Date Sampled:
 08/25/2007
 1158

 Client Matrix:
 Solid
 Date Received:
 08/27/2007
 0803

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.41 g

Date Analyzed: 08/27/2007 1318 Final Weight/Volume: 10.00 mL

Date Prepared: 08/27/2007 0621

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0046
Ethylbenzene		ND		0.0046
Toluene		ND		0.0046
Xylenes, Total		ND		0.0092
Gasoline Range Organics (GRO)	-C5-C12	ND		0.23
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		96		70 - 130
1,2-Dichloroethane-d4 (Surr)		103		60 - 140

Client: ERRG Job Number: 720-10507-1

Client Sample ID: PTLF12 WS20-A,B,C,D

 Lab Sample ID:
 720-10507-5
 Date Sampled:
 08/25/2007
 1158

 Client Matrix:
 Solid
 Date Received:
 08/27/2007
 0803

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B Analysis Batch: 720-25352 Instrument ID: HP DRO5
Preparation: 3550B Prep Batch: 720-25289 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.26 g

Date Analyzed: 08/27/2007 1713 Final Weight/Volume: 5 mL

Date Prepared: 08/27/2007 0905 Injection Volume:

Column ID: PRIMARY

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Diesel Range Organics [C10-C28] 16 0.99

Motor Oil Range Organics [C24-C36] 76 50

Surrogate %Rec Acceptance Limits p-Terphenyl 83 46 - 105

Client: ERRG Job Number: 720-10507-1

Client Sample ID: PTLF12 WS20-A,B,C,D

 Lab Sample ID:
 720-10507-5
 Date Sampled:
 08/25/2007 1158

 Client Matrix:
 Solid
 Date Received:
 08/27/2007 0803

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25347 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-25314 Lab File ID: N/A

Preparation: 3050B Prep Batch: 720-25314 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.03 g

Date Analyzed: 08/27/2007 2115 Final Weight/Volume: 50 mL Date Prepared: 08/27/2007 1234

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		10		0.97
Barium		330		0.97
Cadmium		1.2		0.49
Chromium		210		0.97
Lead		1000		0.97
Selenium		ND		1.9
Silver		4.9		0.97
Zinc		1200		0.97

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25331 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g

Date Analyzed: 08/27/2007 1513 Final Weight/Volume: 50 mL

Date Prepared: 08/27/2007 1059

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.57 0.051

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10507-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
Metals		
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ERRG Job Number: 720-10507-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-25280					
LCS 720-25280/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-25280/3-A	Lab Control Spike Duplicate	Т	Solid	5030B	
MB 720-25280/1-A	Method Blank	T	Solid	5030B	
720-10460-A-6-D MS	Matrix Spike	Т	Solid	5030B	
720-10460-A-6-E MSD	Matrix Spike Duplicate	Т	Solid	5030B	
720-10507-5	PTLF12 WS20-A,B,C,D	Т	Solid	5030B	
Analysis Batch:720-253	315				
LCS 720-25280/2-A	Lab Control Spike	T	Solid	8260B	720-25280
LCSD 720-25280/3-A	Lab Control Spike Duplicate	T	Solid	8260B	720-25280
MB 720-25280/1-A	Method Blank	Т	Solid	8260B	720-25280
720-10460-A-6-D MS	Matrix Spike	T	Solid	8260B	720-25280
720-10460-A-6-E MSD	Matrix Spike Duplicate	Т	Solid	8260B	720-25280
720-10507-5	PTLF12 WS20-A,B,C,D	Т	Solid	8260B	720-25280
Report Basis T = Total					
GC Semi VOA					
Prep Batch: 720-25289					
LCS 720-25289/2-A	Lab Control Spike	Т	Solid	3550B	
LCSD 720-25289/3-A	Lab Control Spike Duplicate	Т	Solid	3550B	
MB 720-25289/1-A	Method Blank	Т	Solid	3550B	
720-10507-5	PTLF12 WS20-A,B,C,D	Т	Solid	3550B	
Analysis Batch:720-253					
LCS 720-25289/2-A	Lab Control Spike	Т	Solid	8015B	720-25289
	Lab Control Spike Duplicate	T	Solid	8015B	720-25289
LCSD 720-25289/3-A	·				
LCSD 720-25289/3-A MB 720-25289/1-A	Method Blank	T T	Solid	8015B	720-25289

Report Basis

T = Total

Client: ERRG Job Number: 720-10507-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25301					
LCS 720-25301/2-A	Lab Control Spike	Т	Solid	7471A	
LCSD 720-25301/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	
MB 720-25301/1-A	Method Blank	Т	Solid	7471A	
720-10487-A-1-E MS	Matrix Spike	Т	Solid	7471A	
720-10487-A-1-F MSD	Matrix Spike Duplicate	T	Solid	7471A	
720-10507-5	PTLF12 WS20-A,B,C,D	Т	Solid	7471A	
Prep Batch: 720-25314					
LCS 720-25314/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-25314/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
LCSSRM 720-25314/25-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 720-25314/1-A	Method Blank	T	Solid	3050B	
720-10507-5	PTLF12 WS20-A,B,C,D	T	Solid	3050B	
720-10507-5MS	Matrix Spike	T	Solid	3050B	
720-10507-5MSD	Matrix Spike Duplicate	Т	Solid	3050B	
Analysis Batch:720-2533	31				
LCS 720-25301/2-A	Lab Control Spike	T	Solid	7471A	720-25301
LCSD 720-25301/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	720-25301
MB 720-25301/1-A	Method Blank	Т	Solid	7471A	720-25301
720-10487-A-1-E MS	Matrix Spike	Т	Solid	7471A	720-25301
720-10487-A-1-F MSD	Matrix Spike Duplicate	Т	Solid	7471A	720-25301
720-10507-5	PTLF12 WS20-A,B,C,D	T	Solid	7471A	720-25301
Analysis Batch:720-2534	17				
LCS 720-25314/2-A	Lab Control Spike	T	Solid	6010B	720-25314
LCSD 720-25314/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-25314
LCSSRM 720-25314/25-A	LCS-Standard Reference Material	T	Solid	6010B	720-25314
MB 720-25314/1-A	Method Blank	T	Solid	6010B	720-25314
720-10507-5	PTLF12 WS20-A,B,C,D	T	Solid	6010B	720-25314
720-10507-5MS	Matrix Spike	Т	Solid	6010B	720-25314
720-10507-5MSD	Matrix Spike Duplicate	Т	Solid	6010B	720-25314

Report Basis

T = Total

Client: ERRG Job Number: 720-10507-1

Method Blank - Batch: 720-25280 Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-25280/1-A Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g
Date Analyzed: 08/27/2007 0948 Final Weight/Volume: 10.00 mL

Date Prepared: 08/27/2007 0948 Final Weight/Volume: 10.00 ml

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Ethylbenzene	ND		0.0050
Toluene	ND		0.0050
Xylenes, Total	ND		0.010
Gasoline Range Organics (GRO)-C5-C12	ND		0.25
Surrogate	% Rec	Acceptance L	Limits
Toluene-d8 (Surr)	104	70 - 130	
1,2-Dichloroethane-d4 (Surr)	92	60 - 140	

Lab Control Spike/ Method: 8260B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25280 Preparation: 5030B

LCS Lab Sample ID: LCS 720-25280/2-A Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g
Date Analyzed: 08/27/2007 0902 Final Weight/Volume: 10.00 mL

Date Prepared: 08/27/2007 0621

LCSD Lab Sample ID: LCSD 720-25280/3-A Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\082

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g
Date Analyzed: 08/27/2007 0925 Final Weight/Volume: 10.00 mL

Date Analyzed: 08/27/2007 0925 Final Weight/Volume: 10.00 mL Date Prepared: 08/27/2007 0621

% Rec. Limit RPD LCS LCSD RPD Limit LCS Qual LCSD Qual Analyte Benzene 82 83 69 - 129 1 20 90 70 - 130 0 20 Toluene 91 Gasoline Range Organics (GRO)-C5-C12 66 60 - 130 20 0 LCS % Rec LCSD % Rec Surrogate Acceptance Limits Toluene-d8 (Surr) 100 97 70 - 130 77 78 60 - 140 1,2-Dichloroethane-d4 (Surr)

Client: ERRG Job Number: 720-10507-1

Matrix Spike/ Method: 8260B
Matrix Spike Duplicate Recovery Report - Batch: 720-25280 Preparation: 5030B

MS Lab Sample ID: 720-10460-A-6-D MS Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\(

Dilution: 1.0 Initial Weight/Volume: 5.53 g

Date Analyzed: 08/27/2007 1148 Final Weight/Volume: 10.00 mL Date Prepared: 08/27/2007 0621

MSD Lab Sample ID: 720-10460-A-6-E MSD Analysis Batch: 720-25315 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25280 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.41 g

Date Analyzed: 08/27/2007 1210 Final Weight/Volume: 10.00 mL

Date Prepared: 08/27/2007 0621

	%	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	78	80	69 - 129	4	20		
Toluene	85	88	70 - 130	6	20		
Gasoline Range Organics (GRO)-C5-C12	55	57	60 - 130	5	20	F	F
Surrogate		MS % Rec	MSD 9	% Rec	Acce	ptance Limi	ts
Toluene-d8 (Surr)		95	103		70) - 130	
1,2-Dichloroethane-d4 (Surr)		77	76		60) - 140	

RL

46 - 105

Client: ERRG Job Number: 720-10507-1

Method Blank - Batch: 720-25289 Method: 8015B Preparation: 3550B

Lab Sample ID: MB 720-25289/1-A Analysis Batch: 720-25352 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-25289 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.33 g
Date Analyzed: 08/27/2007 1835 Final Weight/Volume: 5 mL

Date Prepared: 08/27/2007 0905 Final Weight/Volume: 5 T

Column ID: PRIMARY

Result

Qual

Diesel Range Organics [C10-C28] ND 0.99

Motor Oil Range Organics [C24-C36] ND 49

Surrogate % Rec Acceptance Limits p-Terphenyl 95 46 - 105

Lab Control Spike/ Method: 8015B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25289 Preparation: 3550B

LCS Lab Sample ID: LCS 720-25289/2-A Analysis Batch: 720-25352 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-25289 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.11 g

Date Analyzed: 08/27/2007 1713 Final Weight/Volume: 5 mL
Date Prepared: 08/27/2007 0905 Injection Volume:

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-25289/3-A Analysis Batch: 720-25352 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-25289 Lab File ID: N/A

94

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.08 g
Date Analyzed: 08/27/2007 1740 Final Weight/Volume: 5 mL

Date Analyzed: 08/27/2007 1740 Final Weight/Volume: 5 mL
Date Prepared: 08/27/2007 0905 Injection Volume:

Column ID: PRIMARY

% Rec. LCS **RPD** Analyte **LCSD** Limit RPD Limit LCS Qual LCSD Qual Diesel Range Organics [C10-C28] 88 82 50 - 130 30 8 LCS % Rec Surrogate LCSD % Rec Acceptance Limits

86

Calculations are performed before rounding to avoid round-off errors in calculated results.

p-Terphenyl

Analyte

Client: ERRG Job Number: 720-10507-1

Method Blank - Batch: 720-25314

Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-25314/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/27/2007 2057 Date Prepared: 08/27/2007 1234 Analysis Batch: 720-25347 Prep Batch: 720-25314

Tep Daten. 120

Units: mg/Kg

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result Qual	RL
Arsenic	ND	1.0
Barium	ND	1.0
Cadmium	ND	0.50
Chromium	ND	1.0
Lead	ND	1.0
Selenium	ND	2.0
Silver	ND	1.0
Zinc	ND	1.0

LCS-Standard Reference Material - Batch: 720-25314

Method: 6010B Preparation: 3050B

Lab Sample ID: LCSSRM 720-25314/25-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/27/2007 2239 Date Prepared: 08/27/2007 1234 Analysis Batch: 720-25347 Prep Batch: 720-25314

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1.05 g Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	22.7	18.2	80	72 - 128	
Barium	145	111	77	80 - 120	
Cadmium	42.2	34.5	82	80 - 120	
Chromium	246	204	83	80 - 120	
Lead	44.1	34.7	79	75 - 126	
Selenium	165	138	83	80 - 120	
Silver	79.5	51.0	64	72 - 127	
Zinc	44.0	33.5	76	75 - 125	

Client: ERRG Job Number: 720-10507-1

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25314 Preparation: 3050B

LCS Lab Sample ID: LCS 720-25314/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/27/2007 2100 Date Prepared: 08/27/2007 1234 Analysis Batch: 720-25347

Prep Batch: 720-25314

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25314/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/27/2007 2103 Date Prepared: 08/27/2007 1234 Analysis Batch: 720-25347 Instrument ID: Varian ICP

Prep Batch: 720-25314 Lab File ID: N/A

	%	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	93	94	80 - 120	1	20		
Barium	95	96	80 - 120	1	20		
Cadmium	95	96	80 - 120	1	20		
Chromium	95	96	80 - 120	1	20		
Lead	95	96	80 - 120	1	20		
Selenium	98	98	80 - 120	1	20		
Silver	95	96	80 - 120	1	20		
Zinc	96	97	80 - 120	1	20		

Client: ERRG Job Number: 720-10507-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-25314 Method: 6010B Preparation: 3050B

MS Lab Sample ID: Client Matrix:

720-10507-5 Solid

Analysis Batch: 720-25347

Instrument ID: Varian ICP Lab File ID: N/A

Dilution:

Date Prepared:

1.0

Prep Batch: 720-25314

Initial Weight/Volume: 1.02 g

Date Analyzed:

08/27/2007 2107 08/27/2007 1234

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10507-5

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: 08/27/2007 2111 Date Prepared: 08/27/2007 1234 Analysis Batch: 720-25347 Prep Batch: 720-25314

Instrument ID: Varian ICP Lab File ID: N/A

> Initial Weight/Volume: 1.02 g Final Weight/Volume: 50 mL

% Rec. MSD RPD MS Qual MSD Qual Analyte MS Limit **RPD Limit** 75 - 125 Arsenic 72 20 F F 71 1 Barium 147 76 75 - 125 16 20 F F F Cadmium 71 71 75 - 125 0 20 F Chromium 88 145 75 - 125 17 20 75 - 125 Lead 104 -140 24 20 4 4 77 77 75 - 125 0 20 Selenium Silver 82 85 75 - 125 4 20 Zinc 75 - 125 20 -311 -316 1 4 4

Client: ERRG Job Number: 720-10507-1

Method Blank - Batch: 720-25301 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25301/1-A Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volum

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 08/27/2007 1451 Final Weight/Volume: 50 mL
Date Prepared: 08/27/2007 1059

Analyte Result Qual RL

Mercury ND 0.050

Lab Control Spike/ Method: 7471A
Lab Control Spike Duplicate Recovery Report - Batch: 720-25301 Preparation: 7471A

LCS Lab Sample ID: LCS 720-25301/2-A Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 08/27/2007 1453 Final Weight/Volume: 50 mL Date Prepared: 08/27/2007 1059

LCSD Lab Sample ID: LCSD 720-25301/3-A Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 08/27/2007 1454 Final Weight/Volume: 50 mL
Date Prepared: 08/27/2007 1059

 Analyte
 ½ Rec.

 LCS
 LCSD
 Limit
 RPD
 RPD Limit
 LCS Qual
 LCSD Qual

 Mercury
 100
 101
 85 - 115
 1
 20

Client: ERRG Job Number: 720-10507-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-25301 Preparation: 7471A

MS Lab Sample ID: 720-10487-A-1-E MS Analysis Batch: 720-25331 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 08/27/2007 1455 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10487-A-1-F MSD Analysis Batch: 720-25331 Instrument ID: FIMS 100

MSD Lab Sample ID: 720-10487-A-1-F MSD Analysis Batch: 720-25331 Instrument ID: FIMS 100 Client Matrix: Solid Prep Batch: 720-25301 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.05 g

Date Analyzed: 08/27/2007 1456 Final Weight/Volume: 50 mL
Date Prepared: 08/27/2007 1059

 MS
 MSD
 Limit
 RPD
 RPD Limit
 MS Qual
 MSD Qual

 Mercury
 102
 101
 85 - 115
 1
 20

Date Prepared:

08/27/2007 1059

720-10507

STL San Francisco Chain of Custody

1220 Quary Lane • Pleasanton CA 94566-4756

Sendoso to Societation Phone: (925) 484-1919 • Fax: (925) 484-1096

Reference #: 106886

Date 8/27/07 Page 1 of 1 Email: sflogin@stl-inc.com Report To **Analysis Request** Company: ERRG, Inc Address: 185 Mason Circle Concord, (A) Fuel Tesis EPA 8260B: 🗆 Gas 🗀 BTEX 🗀 Five Oxyenales 🗀 DCA, EDB 🗇 Elhanol 608 608 Metals: DLead DLUFT KRCRA Low Level Metals by EPA 200.8/6020 (ICP-MS): Hexavalent Chromlum pH (24h hold time for H₂O) Purgeable Aromatics BTEX EPA - 🗆 8021 🗀 82808 Phone: 9252504056 Email: Tyson, Appelvaria, 4 CAM17 Metals (EPA 6010/7470/7471) W.E.T (STLC) Bill To: Sampled By: Same ក្ន Phone 425160 4043

Date Time Mat Pres fix erv. 60 PTLF12 WS20-A-D 8/25 11:58 S. 1 MA (must congesite) **RUSH** Project Info. Sample Receipt 1) Reinquished by 2) Relinquished by: 3) Relinquished by: Project Name:

[125.d.c.Trust/AIS

Project#: # of Containers: Signature Time Signature Time Head Space: 27128 PO#: Printed Name Date Printed Name Date 27128/ Credit Card#: ERRG, Inc Conforms to record: Company Company 2) Received by: 3) Received by: 72h 48h // 24h Other: Report: Routine Level 3 Level 4 DEDD DState Tank Fund EDF Signature Time Signature Time * extract for STLC+TCLP + hold Date Printed Name See Terms and Conditions on reverse Company *STL SF reports 8015M from Co-Coa (industry norm). Default for 8015R is C. C.

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10507-1

Login Number: 10507

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10507-2

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I

Mhar

dimple.sharma@testamericainc.com

08/30/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10507-2

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General ChemistryNo analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10507-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10507-5	PTLF12 WS20-A,B,C	;,D			
<i>TCLP</i> Lead		5.4	0.50	mg/L	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-10507-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10507-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
	•		,	
720-10507-5	PTLF12 WS20-A,B,C,D	Solid	08/25/2007 1158	08/27/2007 0803

50 mL

Client: ERRG Job Number: 720-10507-2

Client Sample ID: PTLF12 WS20-A,B,C,D

 Lab Sample ID:
 720-10507-5
 Date Sampled:
 08/25/2007
 1158

 Client Matrix:
 Solid
 Date Received:
 08/27/2007
 0803

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Final Weight/Volume:

Method:6010BAnalysis Batch: 720-25419Instrument ID:Varian ICPPreparation:3010APrep Batch: 720-25422Lab File ID:N/ADilution:1.0Leachate Batch: 720-25403Initial Weight/Volume:5 mL

Date Analyzed: 08/29/2007 1342
Date Prepared: 08/29/2007 1006
Date Leached: 08/28/2007 1740

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 5.4
 0.50

 Chromium
 ND
 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10507-2

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25403					
MB 720-25403/1-B	Method Blank	Р	Solid	1311	
720-10507-5	PTLF12 WS20-A,B,C,D	Р	Solid	1311	
Analysis Batch:720-25	419				
MB 720-25403/1-B	Method Blank	Р	Solid	6010B	720-25422
LCS 720-25422/2-A	Lab Control Spike	Т	Water	6010B	720-25422
LCSD 720-25422/3-A	Lab Control Spike Duplicate	Т	Water	6010B	720-25422
720-10507-5	PTLF12 WS20-A,B,C,D	Р	Solid	6010B	720-25422
720-10507-5MS	Matrix Spike	Р	Solid	6010B	720-25422
720-10507-5MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-25422
Prep Batch: 720-25422					
LCS 720-25422/2-A	Lab Control Spike	Т	Water	3010A	
LCSD 720-25422/3-A	Lab Control Spike Duplicate	Т	Water	3010A	
MB 720-25403/1-B	Method Blank	Р	Solid	3010A	720-25403
720-10507-5MS	Matrix Spike	Р	Solid	3010A	
720-10507-5MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10507-5	PTLF12 WS20-A,B,C,D	Р	Solid	3010A	720-25403

Report Basis

P = TCLP

T = Total

Client: ERRG Job Number: 720-10507-2

Method Blank - Batch: 720-25422 Method: 6010B Preparation: 3010A

TCLP

Lab Sample ID: MB 720-25403/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/29/2007 1323 Date Prepared: 08/29/2007 1006

Date Leached: 08/28/2007 1740

Analysis Batch: 720-25419

Units: mg/L

Instrument ID: Varian ICP Prep Batch: 720-25422 Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-25403

Result RL Analyte Qual Lead ND 0.50 Chromium ND 0.50

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-25422 Preparation: 3010A

LCS Lab Sample ID: LCS 720-25422/2-A

Client Matrix: Water

Dilution: 1.0 Date Analyzed:

08/29/2007 1327 Date Prepared: 08/29/2007 1006 Analysis Batch: 720-25419

Prep Batch: 720-25422

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25422/3-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 08/29/2007 1331 Date Prepared: 08/29/2007 1006 Analysis Batch: 720-25419 Prep Batch: 720-25422

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

	<u>9</u>	<u>6 Rec.</u>					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	91	92	80 - 120	0	20		
Chromium	92	93	80 - 120	0	20		

Client: ERRG Job Number: 720-10507-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25422

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: Client Matrix:

Dilution:

720-10507-5 Solid

1.0

Date Analyzed: 08/29/2007 1334 Date Prepared: 08/29/2007 1006

Analysis Batch: 720-25419 Prep Batch: 720-25422

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10507-5

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: 08/29/2007 1338 Date Prepared: 08/29/2007 1006 Analysis Batch: 720-25419

Prep Batch: 720-25422

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	92	87	75 - 125	3	20	
Chromium	94	92	75 - 125	2	20	

720-10507-2

Sharma, Dimple

From: Tyson Appel [tyson.appel@errg.com]

Sent: Tuesday, August 28, 2007 11:33 AM

To: Sharma, Dimple; Rowan Tucker

Subject: RE: Files from 720-10507-1 AIS-LF 1 & 2

Please RUSH TCLP Chrom and Lead.

Thanks Ty

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]

Sent: Tuesday, August 28, 2007 11:01 AM

To: Rowan Tucker; Tyson Appel

Subject: Files from 720-10507-1 AIS-LF 1 & 2

Dimple Sharma

TestAmerica San Francisco
(925) 484-1919
dimple.sharma@testamericainc.com
www.testamericainc.com
THE LEADER IN ENVIRONMENTAL TESTING

Reference: [015703] Attachments: 1

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10507-2

Login Number: 10507

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10519-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I

Mhar

dimple.sharma@testamericainc.com 08/28/2007

cc: Mr. Goose Tucker

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10519-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10519-5	PTLF12 WS 21 A,B,	C,D				
Diesel Range Orga	nics [C10-C28]	16	1.0	mg/Kg	8015B	
Motor Oil Range Oi		80	50	mg/Kg	8015B	
Arsenic		5.6	0.98	mg/Kg	6010B	
Barium		350	0.98	mg/Kg	6010B	
Cadmium		0.71	0.49	mg/Kg	6010B	
Chromium		260	0.98	mg/Kg	6010B	
Lead		820	0.98	mg/Kg	6010B	
Silver		8.6	0.98	mg/Kg	6010B	
Zinc		1500	0.98	mg/Kg	6010B	
Mercury		0.73	0.051	mg/Kg	7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10519-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS Purge and Trap for Solids	TAL SF TAL SF	SW846 8260B	SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) Ultrasonic Extraction	TAL SF TAL SF	SW846 8015B	SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10519-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10519-5	PTLF12 WS 21 A.B.C.D	Solid	08/27/2007 0917	08/27/2007 1148

Client: ERRG Job Number: 720-10519-1

Client Sample ID: PTLF12 WS 21 A,B,C,D

 Lab Sample ID:
 720-10519-5
 Date Sampled:
 08/27/2007 0917

 Client Matrix:
 Solid
 Date Received:
 08/27/2007 1148

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-25391 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-25346 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.10 g

Date Analyzed: 08/28/2007 1200 Final Weight/Volume: 10.00 mL

Date Prepared: 08/28/2007 0717

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0049
Ethylbenzene		ND		0.0049
Toluene		ND		0.0049
Xylenes, Total		ND		0.0098
Gasoline Range Organics (GRO)	-C5-C12	ND		0.25
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		94		70 - 130
1,2-Dichloroethane-d4 (Surr)		106		60 - 140

Client: ERRG Job Number: 720-10519-1

Client Sample ID: PTLF12 WS 21 A,B,C,D

 Lab Sample ID:
 720-10519-5
 Date Sampled:
 08/27/2007 0917

 Client Matrix:
 Solid
 Date Received:
 08/27/2007 1148

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B Analysis Batch: 720-25387 Instrument ID: Varian DRO4

Preparation: 3550B Prep Batch: 720-25290 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.15 g

Date Analyzed: 08/28/2007 1023 Final Weight/Volume: 5 mL

Date Prepared: 08/27/2007 0919 Injection Volume:

Column ID: PRIMARY

COMMITTE. I THIWALL

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL
Diesel Range Organics [C10-C28] 16 1.0
Motor Oil Range Organics [C24-C36] 80 50

Surrogate %Rec Acceptance Limits
p-Terphenyl 63 46 - 105

Client: ERRG Job Number: 720-10519-1

Client Sample ID: PTLF12 WS 21 A,B,C,D

 Lab Sample ID:
 720-10519-5
 Date Sampled:
 08/27/2007 0917

 Client Matrix:
 Solid
 Date Received:
 08/27/2007 1148

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25347 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-25314 Lab File ID: N/A

Preparation: 3050B Prep Batch: 720-25314 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g

Date Analyzed: 08/27/2007 2154 Final Weight/Volume: 50 mL Date Prepared: 08/27/2007 1234

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		5.6		0.98
Barium		350		0.98
Cadmium		0.71		0.49
Chromium		260		0.98
Lead		820		0.98
Selenium		ND		2.0
Silver		8.6		0.98
Zinc		1500		0.98

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25380 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-25351 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.98 g

Date Analyzed: 08/28/2007 1221 Final Weight/Volume: 50 mL
Date Prepared: 08/28/2007 0801

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.73 0.051

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10519-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits
Metals		
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ERRG Job Number: 720-10519-1

QC Association Summary

Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
·				•
Lab Control Spike	Т	Solid	5030B	
Lab Control Spike Duplicate	Т	Solid	5030B	
Method Blank	T	Solid	5030B	
PTLF12 WS 21 A,B,C,D	T	Solid	5030B	
Matrix Spike	T	Solid	5030B	
Matrix Spike Duplicate	Т	Solid	5030B	
391				
Lab Control Spike	Т	Solid	8260B	720-25346
Lab Control Spike Duplicate	Т	Solid	8260B	720-25346
Method Blank	Т	Solid	8260B	720-25346
PTLF12 WS 21 A,B,C,D	Т	Solid	8260B	720-25346
Matrix Spike	Т	Solid	8260B	720-25346
Matrix Spike Duplicate	Т	Solid	8260B	720-25346
	_	0 111	05500	
	=			
PTLF12 WS 21 A,B,C,D	I	Solid	3550B	
885				
	Т		8015B	720-25290
Lab Control Spike Duplicate		Solid	8015B	720-25290
Method Blank	Т	Solid	8015B	720-25290
887				
.01				
•	Lab Control Spike Lab Control Spike Duplicate Method Blank PTLF12 WS 21 A,B,C,D Matrix Spike Matrix Spike Duplicate Lab Control Spike Lab Control Spike Duplicate Method Blank PTLF12 WS 21 A,B,C,D Matrix Spike Matrix Spike Duplicate Method Blank PTLF12 WS 21 A,B,C,D Lab Control Spike Duplicate Method Blank PTLF12 WS 21 A,B,C,D Lab Control Spike Duplicate Method Blank PTLF12 WS 21 A,B,C,D	Lab Control Spike T Lab Control Spike Duplicate T Method Blank T PTLF12 WS 21 A,B,C,D T Matrix Spike T Matrix Spike Duplicate T 191 Lab Control Spike T Lab Control Spike Duplicate T Method Blank T PTLF12 WS 21 A,B,C,D T Matrix Spike T Matrix Spike T Matrix Spike T Matrix Spike T Matrix Spike Duplicate T Method Blank T PTLF12 WS 21 A,B,C,D T Matrix Spike Duplicate T Method Blank T PTLF12 WS 21 A,B,C,D T 185 Lab Control Spike T Lab Control	Lab Control Spike T Solid Lab Control Spike Duplicate T Solid Method Blank T Solid PTLF12 WS 21 A,B,C,D T Solid Matrix Spike T Solid Matrix Spike Duplicate T Solid Matrix Spike Duplicate T Solid Lab Control Spike T Solid Method Blank T Solid PTLF12 WS 21 A,B,C,D T Solid Method Blank T Solid Matrix Spike T Solid Matrix Spike T Solid Matrix Spike T Solid Matrix Spike T Solid Matrix Spike Duplicate T Solid Method Blank T Solid Method Blank T Solid Method Blank T Solid Lab Control Spike T Solid Method Blank T Solid Method Blank T Solid Method Blank T Solid Method Blank T Solid Method Blank T Solid Method Blank T Solid Method Blank T Solid	Lab Control Spike T Solid 5030B Lab Control Spike Duplicate T Solid 5030B Method Blank T Solid 5030B PTLF12 WS 21 A,B,C,D T Solid 5030B Matrix Spike T Solid 5030B Matrix Spike T Solid 5030B Matrix Spike Duplicate T Solid 5030B Matrix Spike Duplicate T Solid 8260B Lab Control Spike T Solid 8260B Method Blank T Solid 8260B PTLF12 WS 21 A,B,C,D T Solid 8260B Matrix Spike T Solid 8260B Matrix Spike T Solid 8260B Matrix Spike T Solid 8260B Matrix Spike T Solid 8260B Matrix Spike T Solid 8260B Matrix Spike T Solid 8260B Matrix Spike Duplicate T Solid 8260B Matrix Spike Duplicate T Solid 8260B Matrix Spike Duplicate T Solid 3550B Lab Control Spike T Solid 3550B Method Blank T Solid 3550B Lab Control Spike T Solid 3550B Lab Control Spike T Solid 8015B Lab Control Spike T Solid 8015B Method Blank T Solid 8015B Method Blank T Solid 8015B

Report Basis T = Total

Client: ERRG Job Number: 720-10519-1

QC Association Summary

	•	Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25314					
LCS 720-25314/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-25314/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
LCSSRM 720-25314/25-A	LCS-Standard Reference Material	Τ	Solid	3050B	
MB 720-25314/1-A	Method Blank	T	Solid	3050B	
720-10507-A-5-D MS	Matrix Spike	T	Solid	3050B	
720-10507-A-5-E MSD	Matrix Spike Duplicate	T	Solid	3050B	
720-10519-5	PTLF12 WS 21 A,B,C,D	T	Solid	3050B	
Analysis Batch:720-25347	,				
LCS 720-25314/2-A	Lab Control Spike	Т	Solid	6010B	720-25314
LCSD 720-25314/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-25314
LCSSRM 720-25314/25-A	LCS-Standard Reference Material	Т	Solid	6010B	720-25314
MB 720-25314/1-A	Method Blank	Т	Solid	6010B	720-25314
720-10507-A-5-D MS	Matrix Spike	Т	Solid	6010B	720-25314
720-10507-A-5-E MSD	Matrix Spike Duplicate	Т	Solid	6010B	720-25314
720-10519-5	PTLF12 WS 21 A,B,C,D	Т	Solid	6010B	720-25314
Prep Batch: 720-25351					
LCS 720-25351/2-A	Lab Control Spike	Т	Solid	7471A	
LCSD 720-25351/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	
MB 720-25351/1-A	Method Blank	Т	Solid	7471A	
720-10504-A-1-B MS	Matrix Spike	T	Solid	7471A	
720-10504-A-1-C MSD	Matrix Spike Duplicate	T	Solid	7471A	
720-10519-5	PTLF12 WS 21 A,B,C,D	T	Solid	7471A	
Analysis Batch:720-25380					
LCS 720-25351/2-A	Lab Control Spike	Т	Solid	7471A	720-25351
LCSD 720-25351/3-A	Lab Control Spike Duplicate	T	Solid	7471A	720-25351
MB 720-25351/1-A	Method Blank	T	Solid	7471A	720-25351
720-10504-A-1-B MS	Matrix Spike	T	Solid	7471A	720-25351
720-10504-A-1-C MSD	Matrix Spike Duplicate	T	Solid	7471A	720-25351
720-105047(1 0 MOD 720-10519-5	PTLF12 WS 21 A,B,C,D	Ť	Solid	7471A	720-25351
. 20 10010 0		•	Cond		720 20001

Report Basis

T = Total

Client: ERRG Job Number: 720-10519-1

Method Blank - Batch: 720-25346 Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-25346/1-A Analysis Batch: 720-25391 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25346 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g
Date Analyzed: 08/28/2007 1130 Final Weight/Volume: 10.00 mL

RLAnalyte Result Qual Benzene ND 0.0050 Ethylbenzene ND 0.0050 Toluene ND 0.0050 Xylenes, Total ND 0.010 Gasoline Range Organics (GRO)-C5-C12 ND 0.25 Surrogate % Rec Acceptance Limits Toluene-d8 (Surr) 96 70 - 130 1,2-Dichloroethane-d4 (Surr) 96 60 - 140

Lab Control Spike/ Method: 8260B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25346 Preparation: 5030B

LCS Lab Sample ID: LCS 720-25346/2-A Analysis Batch: 720-25391 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25346 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g
Date Analyzed: 08/28/2007 1043 Final Weight/Volume: 10.00 mL

LCSD Lab Sample ID: LCSD 720-25346/3-A Analysis Batch: 720-25391 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25346 Lab File ID: c:\varianws\data\200708\082

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g
Date Analyzed: 08/28/2007 1108 Final Weight/Volume: 10.00 mL

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit Benzene 86 92 69 - 129 7 20 98 70 - 130 20 Toluene 98 1 Gasoline Range Organics (GRO)-C5-C12 76 60 - 130 20 15 LCS % Rec LCSD % Rec Surrogate Acceptance Limits 100 98 70 - 130 Toluene-d8 (Surr) 83 84 60 - 140 1,2-Dichloroethane-d4 (Surr)

Calculations are performed before rounding to avoid round-off errors in calculated results.

Date Prepared:

Date Prepared:

08/28/2007 0717

08/28/2007 0717

Date Prepared: 08/28/2007 0717

Client: ERRG Job Number: 720-10519-1

Matrix Spike/ Method: 8260B
Matrix Spike Duplicate Recovery Report - Batch: 720-25346 Preparation: 5030B

MS Lab Sample ID: 720-10519-5 Analysis Batch: 720-25391 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25346 Lab File ID: c:\varianws\data\200708\(

Dilution: 1.0 Initial Weight/Volume: 5.18 g

Date Analyzed: 08/28/2007 1332 Final Weight/Volume: 10 mL Date Prepared: 08/28/2007 0717

MSD Lab Sample ID: 720-10519-5 Analysis Batch: 720-25391 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25346 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.14 g

Date Analyzed: 08/28/2007 1354 Final Weight/Volume: 10 mL
Date Prepared: 08/28/2007 0717

	9	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	95	103	69 - 129	9	20		
Toluene	96	104	70 - 130	9	20		
Gasoline Range Organics (GRO)-C5-C12	54	68	60 - 130	22	20	F	F
Surrogate		MS % Rec	MSD 9	% Rec	Acce	ptance Limi	ts
Toluene-d8 (Surr)		98	100		70) - 130	
1,2-Dichloroethane-d4 (Surr)		88	84		60) - 140	

RL

46 - 105

Client: ERRG Job Number: 720-10519-1

Method Blank - Batch: 720-25290 Method: 8015B Preparation: 3550B

Lab Sample ID: MB 720-25290/1-A Analysis Batch: 720-25385 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-25290 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.13 g
Date Analyzed: 08/27/2007 2145 Final Weight/Volume: 5 mL

Date Prepared: 08/27/2007 0919 Injection Volume:

Column ID: PRIMARY

Result

Qual

Diesel Range Organics [C10-C28] ND 1.0

Motor Oil Range Organics [C24-C36] ND 50

Surrogate % Rec Acceptance Limits

p-Terphenyl 97 46 - 105

Lab Control Spike/ Method: 8015B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25290 Preparation: 3550B

LCS Lab Sample ID: LCS 720-25290/2-A Analysis Batch: 720-25385 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-25290 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.36 g

Date Analyzed: 08/27/2007 2051 Final Weight/Volume: 5 mL

Date Prepared: 08/27/2007 0919 Injection Volume: Column ID:

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-25290/3-A Analysis Batch: 720-25385 Instrument ID: HP DRO5

Client Matrix: Solid Prep Batch: 720-25290 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.32 g

93

Date Analyzed: 08/27/2007 2118 Final Weight/Volume: 5 mL

Date Prepared: 08/27/2007 0919 Injection Volume:

Column ID: PRIMARY

% Rec. LCS **RPD** Analyte LCSD Limit RPD Limit LCS Qual LCSD Qual Diesel Range Organics [C10-C28] 77 79 50 - 130 3 30 LCS % Rec Surrogate LCSD % Rec Acceptance Limits

92

Calculations are performed before rounding to avoid round-off errors in calculated results.

p-Terphenyl

Analyte

Client: ERRG Job Number: 720-10519-1

Method Blank - Batch: 720-25314

Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-25314/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/27/2007 2057 Date Prepared: 08/27/2007 1234 Analysis Batch: 720-25347 Prep Batch: 720-25314

Units: mg/Kg

Instrument ID: Varian ICP Lab File ID: N/A Initial Weight/Volume: 1 g

Final Weight/Volume: 1 g

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Barium	ND		1.0
Cadmium	ND		0.50
Chromium	ND		1.0
Lead	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Zinc	ND		1.0

LCS-Standard Reference Material - Batch: 720-25314

Method: 6010B Preparation: 3050B

Lab Sample ID: LCSSRM 720-25314/25-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/27/2007 2239 Date Prepared: 08/27/2007 1234 Analysis Batch: 720-25347 Prep Batch: 720-25314

Units: mg/Kg

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 1.05 g

Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	22.7	18.2	80	72 - 128	
Barium	145	111	77	80 - 120	
Cadmium	42.2	34.5	82	80 - 120	
Chromium	246	204	83	80 - 120	
Lead	44.1	34.7	79	75 - 126	
Selenium	165	138	83	80 - 120	
Silver	79.5	51.0	64	72 - 127	
Zinc	44.0	33.5	76	75 - 125	

Client: ERRG Job Number: 720-10519-1

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25314 Preparation: 3050B

LCS Lab Sample ID: LCS 720-25314/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/27/2007 2100 Date Prepared: 08/27/2007 1234 Analysis Batch: 720-25347 Prep Batch: 720-25314

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25314/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/27/2007 2103 Date Prepared: 08/27/2007 1234 Analysis Batch: 720-25347 Instrument ID: Varian ICP

Prep Batch: 720-25314 Lab File ID: N/A

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	93	94	80 - 120	1	20		
Barium	95	96	80 - 120	1	20		
Cadmium	95	96	80 - 120	1	20		
Chromium	95	96	80 - 120	1	20		
Lead	95	96	80 - 120	1	20		
Selenium	98	98	80 - 120	1	20		
Silver	95	96	80 - 120	1	20		
Zinc	96	97	80 - 120	1	20		

Client: ERRG Job Number: 720-10519-1

Matrix Spike/

720-10507-A-5-D MS

MS Lab Sample ID:

Matrix Spike Duplicate Recovery Report - Batch: 720-25314 Preparation: 3050B

Analysis Batch: 720-25347 Instrument ID: Varian ICP

Method: 6010B

Client Matrix: Solid Prep Batch: 720-25314 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g

Date Analyzed: 08/27/2007 2107 Final Weight/Volume: 50 mL Date Prepared: 08/27/2007 1234

MSD Lab Sample ID: 720-10507-A-5-E MSD Analysis Batch: 720-25347 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25314 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g

Date Analyzed: 08/27/2007 2111 Final Weight/Volume: 50 mL
Date Prepared: 08/27/2007 1234

	<u>%</u>	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	71	72	75 - 125	1	20	F	F
Barium	147	76	75 - 125	16	20	F	*
Cadmium	71	71	75 - 125	0	20	F	F
Chromium	88	145	75 - 125	17	20		F
Lead	104	-140	75 - 125	24	20	4	4
Selenium	77	77	75 - 125	0	20		
Silver	82	85	75 - 125	4	20		*
Zinc	-311	-316	75 - 125	1	20	4	4

Client: ERRG Job Number: 720-10519-1

Method Blank - Batch: 720-25351 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25351/1-A Analysis Batch: 720-25380

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/28/2007 1206 Date Prepared: 08/28/2007 0801

Prep Batch: 720-25351

Units: mg/Kg Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

Result Qual RL Analyte Mercury ND 0.050

Lab Control Spike/ Method: 7471A Lab Control Spike Duplicate Recovery Report - Batch: 720-25351 Preparation: 7471A

LCS Lab Sample ID: LCS 720-25351/2-A

Client Matrix: Solid Dilution: 1.0

08/28/2007 1207 Date Analyzed:

08/28/2007 0801 Date Prepared:

Analysis Batch: 720-25380

Prep Batch: 720-25351

Units: mg/Kg

Instrument ID: FIMS 100

Instrument ID: FIMS 100

N/A

Lab File ID:

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25351/3-A

Client Matrix: Solid Dilution: 1.0

08/28/2007 1208 Date Analyzed: Date Prepared: 08/28/2007 0801

Analysis Batch: 720-25380 Prep Batch: 720-25351

Units: mg/Kg

Instrument ID: **FIMS 100**

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

% Rec.

Analyte LCS LCSD Limit **RPD** RPD Limit LCS Qual LCSD Qual Mercury 105 101 85 - 115

Client: ERRG Job Number: 720-10519-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-25351 Preparation: 7471A

MS Lab Sample ID: 720-10504-A-1-B MS Analysis Batch: 720-25380 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25351 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 08/28/2007 1209 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10504-A-1-C MSD Analysis Batch: 720-25380 Instrument ID: FIMS 100 Client Matrix: Solid Prep Batch: 720-25351 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g

Date Analyzed: 08/28/2007 1211 Final Weight/Volume: 50 mL
Date Prepared: 08/28/2007 0801

 MS
 MSD
 Limit
 RPD
 RPD Limit
 MS Qual
 MSD Qual

 Mercury
 100
 94
 85 - 115
 3
 20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Date Prepared:

08/28/2007 0801

720-10519 STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756 Phone: (925) 484-1919 • Fax: (925) 484-1096

Email: sflogin@stl-inc.com

Reference #: 126893

Date 8/27/07 Page | of | Report To Analysis Request Attn: TUSIN Appel Fuel Teals EPA 82608: 🗆 Gas 🗀 BTEX 🗆 Five Oxyenates 🗀 DCA, EDB 🗀 Ethanol Company: ERRG TEPH EPA 8015M* 🗅 Silica Gel 608 608 Volatile Organics GC/MS (VOCs) □ EPA 8260B □ 624 Metals: OLead OLUFT WRORA Low Level Metals by EPA 200.8/6020 (ICP-MS): ☐ 8015/8021 ☐ 82608 ▼ BTEX ☐ MTBE W.E.T (STLC) PXTYALT Address: 251 Kearny St., SF Alkalinity TDS П No. EPA 8081 EPA 8082 Phone: 125-250 - 4056 Email: Semivolatiles GC/MS C EPA 8270 C 625 CAM17 Metals (EPA 6010/7470/7471) Bill To: Same as a prove Sampled By: HW Oll and Grease (EPA 1664) 00 Ω ច្ច Attn: Spec (Sample ID Date Time PTLF12WS21A 18/27/07/0917 Soil none PILFIZWSZIB PTLF12WS21C PT LF 12WS 21D ENTRIES NO FURTHER 3 RUSH Project Info. 2) Relinquished by: Sample Receipt 1) Relinquished by: 3) Relinquished by: Project Name: AIS Project Name: AIS Project Name: AIS Project Name: AIS 24 1148 # of Containers: Project#: 27-128 Signature Signature Head Space: Time Heather Wollenburg Printed Name PO# Temp: 23.6 Printed Name Date Printed Name Date ERRG Credit Card#: Conforms to record: Сотралу Company Company 1) Received by: 2) Received by: 3) Received by: Other: Day Report: Routine Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF Special Instructions / Comments: Signature Time Signature Time · composite samples.
· extract for STLC & TCLP and HOLD Printed Name Date Printed Name Date See Terms and Conditions on reverse Company Company *STL SF reports 8015M from Co-Cox (industry norm). Default for 8015R is C.

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10519-1

Login Number: 10519

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	SAMPLED LESS THAN 4 HOURS AGO
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10519-2

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I

Mhar

dimple.sharma@testamericainc.com 08/31/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10519-2

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General ChemistryNo analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10519-2

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
Analyte		Result / Quaimer	Lillit	Units	метноа	
720-10519-5	PTLF12 WS 21 A,B,	C,D				
STLC Citrate						
Lead		54	0.50	mg/L	6010B	
Chromium		0.82	0.50	mg/L	6010B	
TCLP						
Lead		6.0	0.50	mg/L	6010B	

METHOD SUMMARY

Client: ERRG Job Number: 720-10519-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10519-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
Lab Gample ID	Olient Sample ID	Official Matrix	Janipieu	Neceivea
720-10519-5	PTLF12 WS 21 A,B,C,D	Solid	08/27/2007 0917	08/27/2007 1148

50 mL

Client: ERRG Job Number: 720-10519-2

Client Sample ID: PTLF12 WS 21 A,B,C,D

Lab Sample ID: 720-10519-5 Date Sampled: 08/27/2007 0917 Client Matrix: Solid Date Received: 08/27/2007 1148

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Final Weight/Volume:

Method: 6010B Analysis Batch: 720-25419 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25422 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25403 Initial Weight/Volume: 5 mL

Date Analyzed: 08/29/2007 1346 Date Prepared: 08/29/2007 1006 Date Leached: 08/28/2007 1740

Analyte DryWt Corrected: N Result (mg/L) Qualifier RLLead 6.0 0.50 Chromium ND 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: 6010B Analysis Batch: 720-25555 Instrument ID: Varian ICP Preparation: 3005A Prep Batch: 720-25550 Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 5 mL Date Analyzed: 08/30/2007 2222 Final Weight/Volume: 50 mL Date Prepared: 08/30/2007 1851

Analyte DryWt Corrected: N Result (mg/L) Qualifier RLLead 54 0.50 0.82 Chromium 0.50

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10519-2

Lab Section	Qualifier	Description
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ERRG Job Number: 720-10519-2

QC Association Summary

Lab Sample ID	Client Sample ID				
		Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25403					
MB 720-25403/1-B	Method Blank	Р	Solid	1311	
720-10519-5	PTLF12 WS 21 A,B,C,D	Р	Solid	1311	
Analysis Batch:720-254	.19				
MB 720-25403/1-B	Method Blank	Р	Solid	6010B	720-25422
_CS 720-25422/2-A	Lab Control Spike	Т	Water	6010B	720-25422
_CSD 720-25422/3-A	Lab Control Spike Duplicate	Т	Water	6010B	720-25422
720-10507-A-5-I MS	Matrix Spike	Р	Solid	6010B	720-25422
720-10507-A-5-J MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-25422
720-10519-5	PTLF12 WS 21 A,B,C,D	Р	Solid	6010B	720-25422
Prep Batch: 720-25422					
CS 720-25422/2-A	Lab Control Spike	Т	Water	3010A	
LCSD 720-25422/3-A	Lab Control Spike Duplicate	Ť	Water	3010A	
MB 720-25403/1-B	Method Blank	P	Solid	3010A	720-25403
720-10507-A-5-I MS	Matrix Spike	Р	Solid	3010A	120 20 100
720-10507-A-5-J MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10519-5	PTLF12 WS 21 A,B,C,D	P	Solid	3010A	720-25403
Prep Batch: 720-25550					
CS 720-25550/2-A	Lab Control Spike	R	Water	3005A	
CSD 720-25550/3-A	Lab Control Spike Duplicate	R	Water	3005A	
MB 720-25550/1-A	Method Blank	R	Water	3005A	
720-10519-5	PTLF12 WS 21 A,B,C,D	C	Solid	3005A	
720-10519-5MS	Matrix Spike	C	Solid	3005A	
720-10519-5MSD	Matrix Spike Duplicate	C	Solid	3005A	
20 10010-0W0D	Matrix Opine Duplicate	O	Collu	00007	
Analysis Batch:720-255			Maria	0040D	700 05550
_CS 720-25550/2-A	Lab Control Spike	R	Water	6010B	720-25550
_CSD 720-25550/3-A	Lab Control Spike Duplicate	R	Water	6010B	720-25550
MB 720-25550/1-A	Method Blank	R	Water	6010B	720-25550
720-10519-5	PTLF12 WS 21 A,B,C,D	С	Solid	6010B	720-25550
720-10519-5MS	Matrix Spike	С	Solid	6010B	720-25550
720-10519-5MSD	Matrix Spike Duplicate	С	Solid	6010B	720-25550

Report Basis

C = STLC Citrate

P = TCLP

R = Total Recoverable

T = Total

Client: ERRG Job Number: 720-10519-2

Method Blank - Batch: 720-25422 Method: 6010B Preparation: 3010A

TCLP

Lab Sample ID: MB 720-25403/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/29/2007 1323 Date Prepared: 08/29/2007 1006

Date Leached: 08/28/2007 1740

Analysis Batch: 720-25419 Prep Batch: 720-25422

Units: mg/L

Leachate Batch: 720-25403

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50 0.50
Chromium	ND		0.50

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-25422 Preparation: 3010A

LCS Lab Sample ID: LCS 720-25422/2-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 08/29/2007 1327 Date Prepared: 08/29/2007 1006 Analysis Batch: 720-25419 Prep Batch: 720-25422

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Varian ICP

LCSD Lab Sample ID: LCSD 720-25422/3-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 08/29/2007 1331 Date Prepared: 08/29/2007 1006 Analysis Batch: 720-25419

Units: mg/L

Prep Batch: 720-25422

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Instrument ID:

% Rec. **RPD** RPD Limit LCS Qual LCSD Qual Analyte LCS LCSD Limit Lead 91 92 80 - 120 0 20 Chromium 92 93 80 - 120 0 20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10519-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25422

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: 720-10507-A-5-I MS

Client Matrix: Solid

Dilution: 1.0 Date Analyzed:

08/29/2007 1334 Date Prepared: 08/29/2007 1006

Analysis Batch: 720-25419

Prep Batch: 720-25422

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10507-A-5-J MSD

Solid Client Matrix: 1.0 Dilution:

Date Analyzed: 08/29/2007 1338 Date Prepared: 08/29/2007 1006

Analysis Batch: 720-25419

Prep Batch: 720-25422

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS X	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	92	87	75 - 125	3	20	
Chromium	94	92	75 - 125	2	20	

Client: ERRG Job Number: 720-10519-2

Method Blank - Batch: 720-25550

Method: 6010B Preparation: 3005A **Total Recoverable**

Lab Sample ID: MB 720-25550/1-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 08/30/2007 2157 Date Prepared: 08/30/2007 1851

Analysis Batch: 720-25555 Prep Batch: 720-25550

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-25550

Method: 6010B Preparation: 3005A **Total Recoverable**

LCS Lab Sample ID: LCS 720-25550/2-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 08/30/2007 2201

Date Prepared: 08/30/2007 1851 Analysis Batch: 720-25555

Prep Batch: 720-25550

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25550/3-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 08/30/2007 2204 Date Prepared: 08/30/2007 1851

Analysis Batch: 720-25555 Prep Batch: 720-25550

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

	<u>9</u>	<u>6 Rec.</u>					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	93	93	80 - 120	0	20		
Chromium	95	94	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10519-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25550

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID: Client Matrix:

720-10519-5 Solid

Analysis Batch: 720-25555 Prep Batch: 720-25550

Instrument ID: Varian ICP

Lab File ID: N/A

Dilution: 1.0

Date Analyzed: 08/30/2007 2208 Date Prepared: 08/30/2007 1851

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10519-5

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: 08/30/2007 2212 Date Prepared: 08/30/2007 1851

Analysis Batch: 720-25555 Instrument ID: Varian ICP Prep Batch: 720-25550

Lab File ID: N/A Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

% Rec

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	99	109	80 - 120	1	20	4	4
Chromium	91	92	80 - 120	0	20		

720-10519-2

Sharma, Dimple

From: Tyson Appel [tyson.appel@errg.com]

Sent: Tuesday, August 28, 2007 4:19 PM

To: Sharma, Dimple

Subject: RE: Files from 720-10519-1 AIS-LF 1 & 2

Please RUSH STLC and TCLP for Chrom and Lead

Thanks Tyson

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]

Sent: Tuesday, August 28, 2007 4:06 PM

To: Rowan Tucker; Tyson Appel

Subject: Files from 720-10519-1 AIS-LF 1 & 2

Dimple Sharma

TestAmerica San Francisco
(925) 484-1919
dimple_sharma@testamericainc.com
www.testamericainc.com
THE LEADER IN ENVIRONMENTAL TESTING

Reference: [015727] Attachments: 1

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10519-2

Login Number: 10519

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	SAMPLED LESS THAN 4 HOURS AGO
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10564-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I

Mhar

dimple.sharma@testamericainc.com 08/30/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10564-1

Comments

No additional comments.

Receipt

All samples were received at the laboratory outside the required temperature criteria. Oked to run as per client.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch #25507 was outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 25431 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10564-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10564-1	PTLF12WS22					
Diesel Range Organ	nics [C10-C28]	19	0.99	mg/Kg	8015B	
Motor Oil Range Or		110	49	mg/Kg	8015B	
Arsenic		4.3	1.0	mg/Kg	6010B	
Barium		290	1.0	mg/Kg	6010B	
Cadmium		0.69	0.50	mg/Kg	6010B	
Chromium		180	1.0	mg/Kg	6010B	
Lead		520	1.0	mg/Kg	6010B	
Silver		5.6	1.0	mg/Kg	6010B	
Zinc		680	1.0	mg/Kg	6010B	
Mercury		0.40	0.052	mg/Kg	7471A	
720-10564-2	PTLF12WS23					
Diesel Range Organ	nics [C10-C28]	42	0.99	mg/Kg	8015B	
Motor Oil Range Or		330	49	mg/Kg	8015B	
Arsenic	-	5.6	1.0	mg/Kg	6010B	
Barium		260	1.0	mg/Kg	6010B	
Cadmium		0.70	0.52	mg/Kg	6010B	
Chromium		220	1.0	mg/Kg	6010B	
Lead		700	1.0	mg/Kg	6010B	
Silver		8.0	1.0	mg/Kg	6010B	
Zinc		690	1.0	mg/Kg	6010B	
Mercury		0.95	0.048	mg/Kg	7471A	
720-10564-3	PTLF12WS24					
Diesel Range Organ	nics [C10-C28]	7.4	0.99	mg/Kg	8015B	
Motor Oil Range Organ		65	49	mg/Kg	8015B	
Arsenic	0 []	6.0	0.97	mg/Kg	6010B	
Barium		280	0.97	mg/Kg	6010B	
Cadmium		1.2	0.49	mg/Kg	6010B	
Chromium		120	0.97	mg/Kg	6010B	
Lead		630	0.97	mg/Kg	6010B	
Silver		9.0	0.97	mg/Kg	6010B	
Zinc		890	0.97	mg/Kg	6010B	
Mercury		0.24	0.049	mg/Kg	7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10564-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS Purge and Trap for Solids	TAL SF TAL SF	SW846 8260B	SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) Ultrasonic Extraction	TAL SF	SW846 8015B	SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10564-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received	
720-10564-1	PTLF12WS22	Solid	08/28/2007 1500	08/29/2007 0845	
720-10564-2	PTLF12WS23	Solid	08/28/2007 1510	08/29/2007 0845	
720-10564-3	PTLF12WS24	Solid	08/28/2007 1525	08/29/2007 0845	

Client: ERRG Job Number: 720-10564-1

Client Sample ID: PTLF12WS22

 Lab Sample ID:
 720-10564-1
 Date Sampled:
 08/28/2007
 1500

 Client Matrix:
 Solid
 Date Received:
 08/29/2007
 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-25507 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-25411 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.19 g

Date Analyzed: 08/29/2007 1126 Final Weight/Volume: 10.00 mL Date Prepared: 08/29/2007 0720

Result (mg/Kg) Qualifier RLAnalyte DryWt Corrected: N Benzene ND 0.0048 Ethylbenzene ND 0.0048 Toluene ND 0.0048 Xylenes, Total 0.0096 ND Gasoline Range Organics (GRO)-C5-C12 ND 0.24 %Rec Acceptance Limits Surrogate Toluene-d8 (Surr) 98 70 - 130 1,2-Dichloroethane-d4 (Surr) 99 60 - 140

Client: ERRG Job Number: 720-10564-1

Client Sample ID: PTLF12WS23

 Lab Sample ID:
 720-10564-2
 Date Sampled:
 08/28/2007
 1510

 Client Matrix:
 Solid
 Date Received:
 08/29/2007
 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-25507 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-25411 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.01 g

Date Analyzed: 08/29/2007 1148 Final Weight/Volume: 10.00 mL

Date Prepared: 08/29/2007 0720

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0050
Ethylbenzene		ND		0.0050
Toluene		ND		0.0050
Xylenes, Total		ND		0.010
Gasoline Range Organics (GRO)-C5-C12	ND		0.25
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		96		70 - 130
1,2-Dichloroethane-d4 (Surr)		94		60 - 140

Client: ERRG Job Number: 720-10564-1

Client Sample ID: PTLF12WS24

 Lab Sample ID:
 720-10564-3
 Date Sampled:
 08/28/2007
 1525

 Client Matrix:
 Solid
 Date Received:
 08/29/2007
 0845

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-25507 Instrument ID: Varian 3900E

Preparation: 5030B Prep Batch: 720-25411 Lab File ID: c:\varianws\data\200708\08

Dilution: 1.0 Initial Weight/Volume: 5.03 g

Date Analyzed: 08/29/2007 1224 Final Weight/Volume: 10.00 mL

Date Prepared: 08/29/2007 0720

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0050
Ethylbenzene		ND		0.0050
Toluene		ND		0.0050
Xylenes, Total		ND		0.0099
Gasoline Range Organics (GRO)	-C5-C12	ND		0.25
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		96		70 - 130
1,2-Dichloroethane-d4 (Surr)		97		60 - 140

Client: ERRG Job Number: 720-10564-1

Client Sample ID: PTLF12WS22

 Lab Sample ID:
 720-10564-1
 Date Sampled:
 08/28/2007 1500

 Client Matrix:
 Solid
 Date Received:
 08/29/2007 0845

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B Analysis Batch: 720-25498 Instrument ID: Varian DRO4

Preparation: 3550B Prep Batch: 720-25412 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.31 g

Date Analyzed: 08/29/2007 1549 Final Weight/Volume: 5 mL

Date Prepared: 08/29/2007 0706 Injection Volume:

Column ID: PRIMARY

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Diesel Range Organics [C10-C28] 19 0.99

Motor Oil Range Organics [C24-C36] 110 49

Surrogate %Rec Acceptance Limits
p-Terphenyl 79 46 - 105

Client: ERRG Job Number: 720-10564-1

Client Sample ID: PTLF12WS23

Lab Sample ID: 720-10564-2 Date Sampled: 08/28/2007 1510 Client Matrix: Solid Date Received: 08/29/2007 0845

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B Analysis Batch: 720-25498 Instrument ID: Varian DRO4

Preparation: 3550B Prep Batch: 720-25412 Lab File ID: N/A

30.39 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 08/29/2007 1641 Final Weight/Volume: 5 mL

Date Prepared: 08/29/2007 0706 Injection Volume:

Column ID: **PRIMARY**

DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RLDiesel Range Organics [C10-C28] 42 0.99 Motor Oil Range Organics [C24-C36] 330 49

%Rec Acceptance Limits Surrogate

46 - 105 p-Terphenyl 72

Client: ERRG Job Number: 720-10564-1

Client Sample ID: PTLF12WS24

 Lab Sample ID:
 720-10564-3
 Date Sampled:
 08/28/2007 1525

 Client Matrix:
 Solid
 Date Received:
 08/29/2007 0845

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B Analysis Batch: 720-25498 Instrument ID: Varian DRO4

Preparation: 3550B Prep Batch: 720-25412 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.40 g

Date Analyzed: 08/29/2007 1734 Final Weight/Volume: 5 mL

Date Prepared: 08/29/2007 0706 Injection Volume: Column ID: PRIMARY

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Diesel Range Organics [C10-C28] 7.4 0.99

Motor Oil Range Organics [C24-C36] 65 49

Surrogate %Rec Acceptance Limits

p-Terphenyl 85 46 - 105

Client: ERRG Job Number: 720-10564-1

Client Sample ID: PTLF12WS22

 Lab Sample ID:
 720-10564-1
 Date Sampled:
 08/28/2007
 1500

 Client Matrix:
 Solid
 Date Received:
 08/29/2007
 0845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25419 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-25431 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g
Date Analyzed: 08/29/2007 2053 Final Weight/Volume: 50 mL

Date Analyzed: 08/29/2007 2053 Date Prepared: 08/29/2007 1132

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.3		1.0
Barium		290		1.0
Cadmium		0.69		0.50
Chromium		180		1.0
Lead		520		1.0
Selenium		ND		2.0
Silver		5.6		1.0
Zinc		680		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25496 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-25485 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.97 g

Date Analyzed: 08/30/2007 0949 Final Weight/Volume: 50 mL Date Prepared: 08/30/2007 0735

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.40 0.052

Client: ERRG Job Number: 720-10564-1

Client Sample ID: PTLF12WS23

 Lab Sample ID:
 720-10564-2
 Date Sampled:
 08/28/2007
 1510

 Client Matrix:
 Solid
 Date Received:
 08/29/2007
 0845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-25419Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-25431Lab File ID:N/ADilution:1.0Initial Weight/Volume:0.96 g

Dilution: 1.0 Initial Weight/Volume: 0.96 g
Date Analyzed: 08/29/2007 2050 Final Weight/Volume: 50 mL

Date Prepared: 08/29/2007 1132

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		5.6		1.0
Barium		260		1.0
Cadmium		0.70		0.52
Chromium		220		1.0
Lead		700		1.0
Selenium		ND		2.1
Silver		8.0		1.0
Zinc		690		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-25496Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-25485Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 1.05 g
Date Analyzed: 08/30/2007 0948 Final Weight/Volume: 50 mL

Date Analyzed: 08/30/2007 0948 Final Weight/Volume: 50 mL Date Prepared: 08/30/2007 0735

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.95
 0.048

Client: ERRG Job Number: 720-10564-1

Client Sample ID: PTLF12WS24

 Lab Sample ID:
 720-10564-3
 Date Sampled:
 08/28/2007
 1525

 Client Matrix:
 Solid
 Date Received:
 08/29/2007
 0845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-25419Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-25431Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.03 g

Date Analyzed: 08/29/2007 2057 Final Weight/Volume: 50 mL

Date Prepared: 08/29/2007 1132

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		6.0		0.97
Barium		280		0.97
Cadmium		1.2		0.49
Chromium		120		0.97
Lead		630		0.97
Selenium		ND		1.9
Silver		9.0		0.97
Zinc		890		0.97

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-25496Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-25485Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 1.03 g
Date Analyzed: 08/30/2007 0950 Final Weight/Volume: 50 mL
Date Prepared: 08/30/2007 0735

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.24 0.049

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10564-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits
Metals		
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ERRG Job Number: 720-10564-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-25411					
LCS 720-25411/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-25411/3-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-25411/1-A	Method Blank	T	Solid	5030B	
720-10564-1	PTLF12WS22	T	Solid	5030B	
720-10564-2	PTLF12WS23	T	Solid	5030B	
720-10564-3	PTLF12WS24	T	Solid	5030B	
720-10564-3MS	Matrix Spike	T	Solid	5030B	
720-10564-3MSD	Matrix Spike Duplicate	Т	Solid	5030B	
Analysis Batch:720-25	507				
LCS 720-25411/2-A	Lab Control Spike	T	Solid	8260B	720-25411
LCSD 720-25411/3-A	Lab Control Spike Duplicate	T	Solid	8260B	720-25411
MB 720-25411/1-A	Method Blank	T	Solid	8260B	720-25411
720-10564-1	PTLF12WS22	T	Solid	8260B	720-25411
720-10564-2	PTLF12WS23	T	Solid	8260B	720-25411
720-10564-3	PTLF12WS24	T	Solid	8260B	720-25411
720-10564-3MS	Matrix Spike	T	Solid	8260B	720-25411
720-10564-3MSD	Matrix Spike Duplicate	Т	Solid	8260B	720-25411
	' '				

Report Basis

T = Total

Client: ERRG Job Number: 720-10564-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-25412					
LCS 720-25412/2-A	Lab Control Spike	T	Solid	3550B	
LCSD 720-25412/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 720-25412/1-A	Method Blank	T	Solid	3550B	
720-10539-A-20-B MS	Matrix Spike	Т	Solid	3550B	
720-10539-A-20-C MSD	Matrix Spike Duplicate	T	Solid	3550B	
720-10564-1	PTLF12WS22	Т	Solid	3550B	
720-10564-2	PTLF12WS23	Т	Solid	3550B	
720-10564-3	PTLF12WS24	Т	Solid	3550B	
Analysis Batch:720-254	98				
LCS 720-25412/2-A	Lab Control Spike	T	Solid	8015B	720-25412
LCSD 720-25412/3-A	Lab Control Spike Duplicate	T	Solid	8015B	720-25412
MB 720-25412/1-A	Method Blank	T	Solid	8015B	720-25412
720-10539-A-20-B MS	Matrix Spike	Т	Solid	8015B	720-25412
720-10539-A-20-C MSD	Matrix Spike Duplicate	Т	Solid	8015B	720-25412
720-10564-1	PTLF12WS22	Т	Solid	8015B	720-25412
720-10564-2	PTLF12WS23	Т	Solid	8015B	720-25412
720-10564-3	PTLF12WS24	Т	Solid	8015B	720-25412

Report Basis

T = Total

Client: ERRG Job Number: 720-10564-1

QC Association Summary

	,	D			
Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
•	onent dample ib		Olient Matrix	Wetriou	T Tep Daten
Metals					
Analysis Batch:720-25419					
LCS 720-25431/2-A	Lab Control Spike	T	Solid	6010B	720-25431
LCSD 720-25431/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-25431
LCSSRM 720-25431/15-A	LCS-Standard Reference Material	T	Solid	6010B	720-25431
MB 720-25431/1-A	Method Blank	T	Solid	6010B	720-25431
720-10564-1	PTLF12WS22	T	Solid	6010B	720-25431
720-10564-2	PTLF12WS23	T	Solid	6010B	720-25431
720-10564-2MS	Matrix Spike	T	Solid	6010B	720-25431
720-10564-2MSD	Matrix Spike Duplicate	Т	Solid	6010B	720-25431
720-10564-3	PTLF12WS24	Т	Solid	6010B	720-25431
Prep Batch: 720-25431		_	0 11 1	00500	
LCS 720-25431/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-25431/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
LCSSRM 720-25431/15-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 720-25431/1-A	Method Blank	T	Solid	3050B	
720-10564-1	PTLF12WS22	T	Solid	3050B	
720-10564-2	PTLF12WS23	T	Solid	3050B	
720-10564-2MS	Matrix Spike	Т	Solid	3050B	
720-10564-2MSD	Matrix Spike Duplicate	T	Solid	3050B	
720-10564-3	PTLF12WS24	Т	Solid	3050B	
Draw Bataba 700 05405					
Prep Batch: 720-25485	Lab Control Cnika	т	Calid	7474 /	
LCS 720-25485/2-A	Lab Control Spike	T	Solid	7471A	
LCSD 720-25485/3-A	Lab Control Spike Duplicate	T T	Solid	7471A	
MB 720-25485/1-A	Method Blank	T	Solid	7471A	
720-10564-1	PTLF12WS22	T	Solid	7471A	
720-10564-2	PTLF12WS23	T	Solid	7471A	
720-10564-3MS	Matrix Spike	T	Solid	7471A	
720-10564-3MSD	Matrix Spike Duplicate	Т	Solid	7471A	
720-10564-3	PTLF12WS24	T	Solid	7471A	
Analysis Batch:720-25496					
LCS 720-25485/2-A	Lab Control Spike	Т	Solid	7471A	720-25485
LCSD 720-25485/3-A	Lab Control Spike Duplicate	Ť	Solid	7471A	720-25485
MB 720-25485/1-A	Method Blank	T T	Solid	7471A 7471A	720-25485
720-10564-1	PTLF12WS22	T T	Solid	7471A 7471A	720-25485 720-25485
	_	T T			
720-10564-2	PTLF12WS23		Solid	7471A	720-25485
720-10564-3MS	Matrix Spike	T T	Solid	7471A	720-25485
720-10564-3MSD	Matrix Spike Duplicate	T T	Solid	7471A	720-25485
720-10564-3	PTLF12WS24	T	Solid	7471A	720-25485

Report Basis T = Total

Client: ERRG Job Number: 720-10564-1

Method Blank - Batch: 720-25411 Method: 8260B Preparation: 5030B

Lab Sample ID: MB 720-25411/1-A Analysis Batch: 720-25507 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25411 Lab File ID: c:\varianws\data\200708\08

 Dilution:
 1.0
 Units:
 mg/Kg
 Initial Weight/Volume:
 5.00 g

 Date Analyzed:
 08/29/2007 0933
 Final Weight/Volume:
 10.00 mL

 Date Prepared:
 08/29/2007 0720

RLAnalyte Result Qual Benzene ND 0.0050 Ethylbenzene ND 0.0050 Toluene ND 0.0050 Xylenes, Total ND 0.010 Gasoline Range Organics (GRO)-C5-C12 ND 0.25 Surrogate % Rec Acceptance Limits Toluene-d8 (Surr) 95 70 - 130 1,2-Dichloroethane-d4 (Surr) 91 60 - 140

Lab Control Spike/ Method: 8260B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25411 Preparation: 5030B

LCS Lab Sample ID: LCS 720-25411/2-A Analysis Batch: 720-25507 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25411 Lab File ID: c:\varianws\\data\200708\\08\text{Epiletion}: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g
Date Analyzed: 08/29/2007 0848 Final Weight/Volume: 10.00 mL
Date Prepared: 08/29/2007 0720

LCSD Lab Sample ID: LCSD 720-25411/3-A Analysis Batch: 720-25507 Instrument ID: Varian 3900E

Client Matrix: Solid Prep Batch: 720-25411 Lab File ID: c:\varianws\data\200708\082

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5.00 g
Date Analyzed: 08/29/2007 1103 Final Weight/Volume: 10.00 mL

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit Benzene 87 82 69 - 129 5 20 97 70 - 130 20 Toluene 91 6 Gasoline Range Organics (GRO)-C5-C12 67 60 - 130 7 20 LCS % Rec LCSD % Rec Surrogate Acceptance Limits 97 101 70 - 130 Toluene-d8 (Surr) 79 77 60 - 140 1,2-Dichloroethane-d4 (Surr)

Calculations are performed before rounding to avoid round-off errors in calculated results.

Date Prepared:

08/29/2007 0720

Client: ERRG Job Number: 720-10564-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-25411

Method: 8260B Preparation: 5030B

MS Lab Sample ID: 720-10564-3

Client Matrix: Solid

Dilution: 1.0 Date Analyzed:

08/29/2007 1246 Date Prepared: 08/29/2007 0720 Analysis Batch: 720-25507

Prep Batch: 720-25411

Instrument ID: Varian 3900E

Lab File ID: c:\varianws\data\200708\(

Initial Weight/Volume: 5.72 g Final Weight/Volume: 10.00 mL

MSD Lab Sample ID: 720-10564-3

Client Matrix: Solid 1.0 Dilution:

Date Analyzed: 08/29/2007 1308 Date Prepared: 08/29/2007 0720 Analysis Batch: 720-25507 Instrument ID: Varian 3900E

Prep Batch: 720-25411 Lab File ID: c:\varianws\data\200708\08

> Initial Weight/Volume: 5.09 g Final Weight/Volume: 10.00 mL

	<u>%</u>	Rec.				
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Benzene	85	96	69 - 129	24	20	F
Toluene	91	101	70 - 130	21	20	F
Gasoline Range Organics (GRO)-C5-C12	59	65	60 - 130	20	20	F
Surrogate		MS % Rec	MSD %	Rec	Acce	eptance Limits
Toluene-d8 (Surr)		98	101		70	0 - 130
1,2-Dichloroethane-d4 (Surr)		82	85		60	0 - 140

46 - 105

Client: ERRG Job Number: 720-10564-1

Method Blank - Batch: 720-25412 Method: 8015B Preparation: 3550B

Lab Sample ID: MB 720-25412/1-A Analysis Batch: 720-25498 Instrument ID: Varian DRO4

Client Matrix: Solid Prep Batch: 720-25412 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.31 g
Date Analyzed: 08/29/2007 1523 Final Weight/Volume: 5 mL

Date Prepared: 08/29/2007 0706 Injection Volume:

Column ID: PRIMARY

 Analyte
 Result
 Qual
 RL

 Diesel Range Organics [C10-C28]
 ND
 0.99

 Motor Oil Range Organics [C24-C36]
 ND
 49

Surrogate % Rec Acceptance Limits

p-Terphenyl 87 46 - 105

Lab Control Spike/ Method: 8015B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25412 Preparation: 3550B

LCS Lab Sample ID: LCS 720-25412/2-A Analysis Batch: 720-25498 Instrument ID: Varian DRO4

Client Matrix: Solid Prep Batch: 720-25412 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.20 g

Date Analyzed: 08/29/2007 1430 Final Weight/Volume: 5 mL

Date Prepared: 08/29/2007 0706 Injection Volume:

Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-25412/3-A Analysis Batch: 720-25498 Instrument ID: Varian DRO4

Client Matrix: Solid Prep Batch: 720-25412 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30.17 g

Date Analyzed: 08/29/2007 1456 Final Weight/Volume: 5 mL
Date Prepared: 08/29/2007 0706 Injection Volume:

Column ID: PRIMARY

82

% Rec. LCS **RPD** Analyte LCSD Limit RPD Limit LCS Qual LCSD Qual Diesel Range Organics [C10-C28] 74 74 50 - 130 30 1 LCS % Rec Surrogate LCSD % Rec Acceptance Limits

82

Calculations are performed before rounding to avoid round-off errors in calculated results.

p-Terphenyl

PRIMARY

46 - 105

Client: ERRG Job Number: 720-10564-1

Matrix Spike/ Method: 8015B Matrix Spike Duplicate Recovery Report - Batch: 720-25412 Preparation: 3550B

MS Lab Sample ID: 720-10539-A-20-B MS Analysis Batch: 720-25498 Instrument ID: Varian DRO4

Prep Batch: 720-25412 Client Matrix: Solid Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 30.28 g Date Analyzed: 08/30/2007 0307 Final Weight/Volume: 5 mL

Date Prepared: 08/29/2007 0706 Injection Volume: Column ID:

Instrument ID: Varian DRO4

MSD Lab Sample ID: 720-10539-A-20-C MSD Analysis Batch: 720-25498

Client Matrix: Prep Batch: 720-25412 Solid Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 30.34 g Date Analyzed: 08/30/2007 0333 Final Weight/Volume: 5 mL

Date Prepared: 08/29/2007 0706 Injection Volume:

Column ID: **PRIMARY**

85

% Rec. MS Qual MSD Qual MS MSD **RPD** Analyte Limit **RPD Limit** Diesel Range Organics [C10-C28] 50 - 130 71 64 10 30 Surrogate MS % Rec MSD % Rec Acceptance Limits

69

p-Terphenyl

Client: ERRG Job Number: 720-10564-1

Method Blank - Batch: 720-25431

Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-25431/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/29/2007 2033

Date Prepared: 08/29/2007 1132

Analysis Batch: 720-25419 Prep Batch: 720-25431

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Barium	ND		1.0
Cadmium	ND		0.50
Chromium	ND		1.0
Lead	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Zinc	ND		1.0

LCS-Standard Reference Material - Batch: 720-25431

Method: 6010B Preparation: 3050B

Lab Sample ID: LCSSRM 720-25431/15-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/29/2007 2136 Date Prepared: 08/29/2007 1132 Analysis Batch: 720-25419 Prep Batch: 720-25431

Units: mg/Kg

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 0.99 g Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	22.0	20.6	94	72 - 128	
Barium	141	124	88	80 - 120	
Cadmium	40.9	37.3	91	80 - 120	
Chromium	239	219	92	80 - 120	
Lead	42.8	37.3	87	75 - 126	
Selenium	160	152	95	80 - 120	
Silver	77.1	66.9	87	72 - 127	
Zinc	42.7	35.9	84	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10564-1

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25431 Preparation: 3050B

LCS Lab Sample ID: LCS 720-25431/2-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/29/2007 2036 Date Prepared: 08/29/2007 1132 Analysis Batch: 720-25419

Prep Batch: 720-25431

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25431/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/29/2007 2039 Date Prepared: 08/29/2007 1132 Analysis Batch: 720-25419 Instrument ID: Varian ICP

Prep Batch: 720-25431 Lab File ID: N/A

Units: mg/Kg Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	97	98	80 - 120	0	20		
Barium	95	95	80 - 120	1	20		
Cadmium	94	94	80 - 120	0	20		
Chromium	94	95	80 - 120	0	20		
Lead	93	93	80 - 120	0	20		
Selenium	100	100	80 - 120	0	20		
Silver	97	97	80 - 120	0	20		
Zinc	95	95	80 - 120	0	20		

Client: ERRG Job Number: 720-10564-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25431

Method: 6010B Preparation: 3050B

MS Lab Sample ID:

720-10564-2

Analysis Batch: 720-25419

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25431

Lab File ID: N/A

Dilution:

1.0

Initial Weight/Volume: 0.97 g Final Weight/Volume: 50 mL

Date Analyzed: Date Prepared: 08/29/2007 2043 08/29/2007 1132

Analysis Batch: 720-25419

Lab File ID:

Instrument ID: Varian ICP

Client Matrix:

Date Analyzed:

Date Prepared:

MSD Lab Sample ID: 720-10564-2 Solid

Prep Batch: 720-25431

N/A Initial Weight/Volume: 1.04 g

1.0 Dilution:

08/29/2007 2046

Final Weight/Volume: 50 mL

% Rec.

08/29/2007 1132

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	80	79	75 - 125	7	20		
Barium	169	102	75 - 125	19	20	F	
Cadmium	71	70	75 - 125	9	20	F	F
Chromium	45	79	75 - 125	11	20	F	
Lead	65	-68	75 - 125	19	20	4	4
Selenium	79	78	75 - 125	8	20		
Silver	81	82	75 - 125	5	20		
Zinc	8	204	75 - 125	24	20	4	4

Client: ERRG Job Number: 720-10564-1

Method Blank - Batch: 720-25485 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25485/1-A Analysis Batch: 720-25496 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25485 Lab File ID: N/A Units: mg/Kg Dilution: 1.0 Initial Weight/Volume: 1 g

Date Analyzed: 08/30/2007 0942 Final Weight/Volume: 50 mL Date Prepared: 08/30/2007 0735

Result Qual RL Analyte Mercury ND 0.050

Lab Control Spike/ Method: 7471A

Lab Control Spike Duplicate Recovery Report - Batch: 720-25485 Preparation: 7471A

LCS Lab Sample ID: LCS 720-25485/2-A Instrument ID: FIMS 100 Analysis Batch: 720-25496

Client Matrix: Solid Prep Batch: 720-25485 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

08/30/2007 0943 Final Weight/Volume: Date Analyzed: 50 mL Date Prepared: 08/30/2007 0735

LCSD Lab Sample ID: LCSD 720-25485/3-A Analysis Batch: 720-25496 Instrument ID: **FIMS 100**

Client Matrix: Solid Prep Batch: 720-25485 Lab File ID: N/A Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

08/30/2007 0944 Final Weight/Volume: 50 mL Date Analyzed: Date Prepared: 08/30/2007 0735

% Rec. Analyte LCS LCSD Limit **RPD** RPD Limit LCS Qual LCSD Qual Mercury 99 100 85 - 115

Client: ERRG Job Number: 720-10564-1

Matrix Spike/ Method: 7471A Matrix Spike Duplicate Recovery Report - Batch: 720-25485 Preparation: 7471A

MS Lab Sample ID: 720-10564-3 Analysis Batch: 720-25496 Instrument ID: FIMS 100

Prep Batch: 720-25485 Client Matrix: Solid Lab File ID: N/A Dilution:

Initial Weight/Volume: 1.05 g 1.0 Date Analyzed: Final Weight/Volume: 50 mL 08/30/2007 0945 Date Prepared: 08/30/2007 0735

MSD Lab Sample ID: 720-10564-3 Analysis Batch: 720-25496 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25485 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.03 g Date Analyzed: 08/30/2007 0946 Final Weight/Volume: 50 mL 08/30/2007 0735

% Rec. MS MSD Limit RPD MS Qual MSD Qual Analyte **RPD Limit**

85 - 115 Mercury 113 108 1 20

Date Prepared:

CHAIN OF CUSTODY

106938

251 Kearny St., Suite 502

San Francisco, CA 994108

Phone: (415) 395-9974 Fax: (415) 395-9983

Laboratory: Severn Trent/Test America

Contact: Surinder Sidhu/Dimple Sharma Phone: 925-484-1919

Page:

720-10564

ANALYSES Project Manager: Tyson Appel and Project Name Presidio Landfill 1 + 2 TPH -g, BTEX motor oil, diesel Extract for STLC, TCLP HOLD Fax/Email results to: Tyson.Appel@ERRG.COM Project No. 27-128 RCRA 8 and Zinc Samplers J. Medley Number of Containers 5 day 10 day 48 hr Turn around time: Other: Sample ID Lab ID Date/Time Matrix Preserv. PTLF12WS22 3128/07 1500 Soil None X X 4 PTLF12WS23 4128107 1510 Soil None Χ X X PTLF12WS24 4128/07 1725 Soil None Χ X X SPECIAL INSTRUCTIONS/COMMENTS Relinquished by (Sampler) 12 Relinquished by (Sampler) Relinquished by (Sampler) Extract for STLC, TCLP and hold Signature) (Time) Signature) (Time) 8/28/07 Call Tyson with any questions 925-250-4056 Printed Name) (Date) (Printed Name) (Date) (a) Company) (Company) (Company) Received By Received By: Signature) (Time) (Signature) (Time) 8-29-07 Printed Name) Printed Name) (Date) Printed Name) (Date) ALSE Company) (Company)

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10564-1

Login Number: 10564

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10564-2

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma
Project Manager I

Mhar

dimple.sharma@testamericainc.com 09/04/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10564-2

Comments

No additional comments.

Receipt

All samples were received at the laboratory outside the required temperature criteria.

All other samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10564-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10564-1	PTLF12WS22				
STLC Citrate Lead Chromium		35 0.62	0.50 0.50	mg/L mg/L	6010B 6010B
<i>TCLP</i> Lead		3.8	0.50	mg/L	6010B
720-10564-2	PTLF12WS23				
STLC Citrate Lead Chromium		130 0.66	0.50 0.50	mg/L mg/L	6010B 6010B
TCLP Lead		9.6	0.50	mg/L	6010B
720-10564-3	PTLF12WS24				
STLC Citrate Lead Chromium		120 0.74	0.50 0.50	mg/L mg/L	6010B 6010B
<i>TCLP</i> Lead		2.4	0.50	mg/L	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-10564-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10564-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received	
720-10564-1	PTLF12WS22	Solid	08/28/2007 1500	08/29/2007 0845	
720-10564-2	PTLF12WS23	Solid	08/28/2007 1510	08/29/2007 0845	
720-10564-3	PTLF12WS24	Solid	08/28/2007 1525	08/29/2007 0845	

Client: ERRG Job Number: 720-10564-2

Client Sample ID: PTLF12WS22

 Lab Sample ID:
 720-10564-1
 Date Sampled:
 08/28/2007 1500

 Client Matrix:
 Solid
 Date Received:
 08/29/2007 0845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-25570 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25568 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25481 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/31/2007 1451 Date Prepared: 08/31/2007 1152 Date Leached: 08/29/2007 2025

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 3.8
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25606Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-25603Lab File ID:N/ADilution:1.0Leachate Batch: 720-25482Initial Weight/Volume:5 mL

Date Analyzed: 09/04/2007 1052 Date Prepared: 09/04/2007 1014 Date Leached: 08/29/2007 2057

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 35
 0.50

 Chromium
 0.62
 0.50

Client: ERRG Job Number: 720-10564-2

Client Sample ID: PTLF12WS23

 Lab Sample ID:
 720-10564-2
 Date Sampled:
 08/28/2007 1510

 Client Matrix:
 Solid
 Date Received:
 08/29/2007 0845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Method: Analysis Batch: 720-25570 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25568 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25481 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/31/2007 1502 Date Prepared: 08/31/2007 1152 Date Leached: 08/29/2007 2025

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 9.6
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25606Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-25603Lab File ID:N/ADilution:1.0Leachate Batch: 720-25482Initial Weight/Volume:5 mL

Date Analyzed: 09/04/2007 1056 Date Prepared: 09/04/2007 1014 Date Leached: 08/29/2007 2057

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 130
 0.50

 Chromium
 0.66
 0.50

Client: ERRG Job Number: 720-10564-2

Client Sample ID: PTLF12WS24

 Lab Sample ID:
 720-10564-3
 Date Sampled:
 08/28/2007 1525

 Client Matrix:
 Solid
 Date Received:
 08/29/2007 0845

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Method: Analysis Batch: 720-25570 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25568 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25481 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 08/31/2007 1506 Date Prepared: 08/31/2007 1152 Date Leached: 08/29/2007 2025

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 2.4
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25606Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-25603Lab File ID:N/ADilution:1.0Leachate Batch: 720-25482Initial Weight/Volume:5 mL

Date Analyzed: 09/04/2007 1100
Date Prepared: 09/04/2007 1014
Date Leached: 08/29/2007 2057

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 120
 0.50

 Chromium
 0.74
 0.50

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10564-2

Lab Section	Qualifier	Description
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ERRG Job Number: 720-10564-2

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25481					
720-10564-1	PTLF12WS22	Р	Solid	1311	
720-10564-2	PTLF12WS23	Р	Solid	1311	
720-10564-3	PTLF12WS24	P	Solid	1311	
Prep Batch: 720-25482					
LCS 720-25482/5-B	Lab Control Spike	С	Solid	CA WET Citrate	
LCSD 720-25482/6-B	Lab Control Spike Duplicate	C	Solid	CA WET Citrate	
MB 720-25482/1-B	Method Blank	Č	Solid	CA WET Citrate	
720-10564-1	PTLF12WS22	C	Solid	CA WET Citrate	
720-10564-2	PTLF12WS23	C	Solid	CA WET Citrate	
		C			
720-10564-3	PTLF12WS24	C	Solid	CA WET Citrate	
Prep Batch: 720-25568					
LCS 720-25568/2-A	Lab Control Spike	Т	Water	3010A	
LCSD 720-25568/3-A	Lab Control Spike Duplicate	T	Water	3010A	
MB 720-25568/1-A	Method Blank	T	Water	3010A	
720-10564-1MS	Matrix Spike	Р	Solid	3010A	
720-10564-1MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10564-1	PTLF12WS22	Р	Solid	3010A	720-25481
720-10564-2	PTLF12WS23	Р	Solid	3010A	720-25481
720-10564-3	PTLF12WS24	Р	Solid	3010A	720-25481
Analysis Batch:720-25	570				
LCS 720-25568/2-A	Lab Control Spike	Т	Water	6010B	720-25568
LCSD 720-25568/3-A	Lab Control Spike Duplicate	Ť	Water	6010B	720-25568
MB 720-25568/1-A	Method Blank	Ť	Water	6010B	720-25568
720-10564-1	PTLF12WS22	P	Solid	6010B	720-25568
720-10564-1MS	Matrix Spike	P	Solid	6010B	720-25568
720-10564-1MSD	•	P	Solid	6010B	720-25568
720-10564-1WSD	Matrix Spike Duplicate PTLF12WS23	P	Solid	6010B	
					720-25568
720-10564-3	PTLF12WS24	Р	Solid	6010B	720-25568
Prep Batch: 720-25603					
LCS 720-25482/5-B	Lab Control Spike	С	Solid	3005A	720-25482
LCSD 720-25482/6-B	Lab Control Spike Duplicate	С	Solid	3005A	720-25482
MB 720-25482/1-B	Method Blank	С	Solid	3005A	720-25482
720-10564-1	PTLF12WS22	С	Solid	3005A	720-25482
720-10564-2	PTLF12WS23	Ċ	Solid	3005A	720-25482
720-10564-3MS	Matrix Spike	Č	Solid	3005A	·
720-10564-3MSD	Matrix Spike Duplicate	Č	Solid	3005A	
720-10564-3	PTLF12WS24	Č	Solid	3005A	720-25482
720 1000-10	I ILI IZVVOZT	0	Joha	3000/1	. 20 20-102

Client: ERRG Job Number: 720-10564-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:720-25	606				
LCS 720-25482/5-B	Lab Control Spike	С	Solid	6010B	720-25603
LCSD 720-25482/6-B	Lab Control Spike Duplicate	С	Solid	6010B	720-25603
MB 720-25482/1-B	Method Blank	С	Solid	6010B	720-25603
720-10564-1	PTLF12WS22	С	Solid	6010B	720-25603
720-10564-2	PTLF12WS23	С	Solid	6010B	720-25603
720-10564-3	PTLF12WS24	С	Solid	6010B	720-25603
720-10564-3MS	Matrix Spike	С	Solid	6010B	720-25603
720-10564-3MSD	Matrix Spike Duplicate	С	Solid	6010B	720-25603

Report Basis

C = STLC Citrate

P = TCLP

T = Total

Client: ERRG Job Number: 720-10564-2

Method Blank - Batch: 720-25568 Method: 6010B Preparation: 3010A

Lab Sample ID: MB 720-25568/1-A Analysis Batch: 720-25570 Instrument ID: Varian ICP

Client Matrix: Water Prep Batch: 720-25568 Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL

Date Analyzed: 08/31/2007 1440 Final Weight/Volume: 50 mL

Date Analyzed: 08/31/2007 1440 Final Weight/Volume: 50 mL Date Prepared: 08/31/2007 1152

 Analyte
 Result
 Qual
 RL

 Lead
 ND
 0.50

 Chromium
 ND
 0.50

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25568 Preparation: 3010A

LCS Lab Sample ID: LCS 720-25568/2-A Analysis Batch: 720-25570 Instrument ID: Varian ICP

Client Matrix: Water Prep Batch: 720-25568 Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL

Date Analyzed: 08/31/2007 1443 Final Weight/Volume: 50 mL Date Prepared: 08/31/2007 1152

LCSD Lab Sample ID: LCSD 720-25568/3-A Analysis Batch: 720-25570 Instrument ID: Varian ICP

Client Matrix: Water Prep Batch: 720-25568 Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL

Date Analyzed: 08/31/2007 1447 Final Weight/Volume: 50 mL Date Prepared: 08/31/2007 1152

% Rec. **RPD** RPD Limit LCS Qual LCSD Qual Analyte LCS LCSD Limit Lead 96 95 80 - 120 1 20 Chromium 98 96 80 - 120 20 2

Client: ERRG Job Number: 720-10564-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25568

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: Client Matrix:

720-10564-1 Solid

Analysis Batch: 720-25570 Prep Batch: 720-25568

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL

Dilution: 1.0

Date Analyzed: 08/31/2007 1455 Date Prepared: 08/31/2007 1152 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10564-1

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: 08/31/2007 1458 Date Prepared: 08/31/2007 1152 Analysis Batch: 720-25570 Prep Batch: 720-25568

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	96	97	75 - 125	1	20	
Chromium	97	98	75 - 125	1	20	

Client: ERRG Job Number: 720-10564-2

Method Blank - Batch: 720-25603

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-25482/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/04/2007 1042 Date Prepared: 09/04/2007 1014

Date Leached: 08/29/2007 2057

Analysis Batch: 720-25606

Units: mg/L

Prep Batch: 720-25603

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-25482

RL Analyte Result Qual Lead ND 0.50 Chromium ND 0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-25603

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

5 mL

50 mL

LCS Lab Sample ID: LCS 720-25482/5-B

Client Matrix: Dilution:

Solid

Date Analyzed: Date Prepared:

1.0 09/04/2007 1045

Date Leached: 08/29/2007 2057

09/04/2007 1014

LCSD Lab Sample ID: LCSD 720-25482/6-B

Client Matrix: Solid Dilution: 1.0

Date Analyzed:

Date Prepared:

09/04/2007 1049 09/04/2007 1014

Date Leached: 08/29/2007 2057 Analysis Batch: 720-25606

Prep Batch: 720-25603

Units: mg/L

Leachate Batch: 720-25482

Analysis Batch: 720-25606 Prep Batch: 720-25603

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume:

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-25482

% Rec.

RPD Limit LCS Qual LCSD Qual Analyte LCS LCSD Limit **RPD** Lead 92 91 80 - 120 1 20 Chromium 93 92 80 - 120 20 1

Client: ERRG Job Number: 720-10564-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25603

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID: Client Matrix:

720-10564-3 Solid

Analysis Batch: 720-25606 Prep Batch: 720-25603

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL

Dilution: 1.0

Date Analyzed: Date Prepared:

09/04/2007 1104 09/04/2007 1014

Final Weight/Volume: 50 mL

Instrument ID: Varian ICP

MSD Lab Sample ID: 720-10564-3

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: 09/04/2007 1107 Date Prepared: 09/04/2007 1014 Analysis Batch: 720-25606

Prep Batch: 720-25603 Lab File ID: N/A

> Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec

Analyte	MS 76	MSD	Limit	RPD	RPD Limit	MS Qua	MSD Qual
Lead	91	107	80 - 120	1	20	4	4
Chromium	90	91	80 - 120	1	20		

720-10564-2

Sharma, Dimple

From: Tyson Appel [tyson.appel@errg.com]
Sent: Thursday, August 30, 2007 3:02 PM

To: Sharma, Dimple
Cc: Rowan Tucker

Subject: RE: Files from 720-10564-1 AIS-LF 1 & 2

Please RUSH STLC and TCLP Chrom and Lead

Thanks Tyson

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]

Sent: Thu 8/30/2007 2:51 PM **To:** Rowan Tucker; Tyson Appel

Subject: Files from 720-10564-1 AIS-LF 1 & 2

Dimple Sharma

TestAmerica San Francisco
(925) 484-1919
dimple.sharma@testamericainc.com
www.testamericainc.com
THE LEADER IN ENVIRONMENTAL TESTING

Reference: [015815] Attachments: 1

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10564-2

Login Number: 10564

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10611-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I

Mhar

dimple.sharma@testamericainc.com 09/05/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10611-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 25624 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10611-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10611-1	PTLF 12WS 25				
Barium Chromium Lead Zinc Mercury		220 330 420 440 0.16	0.98 0.98 0.98 0.98 0.051	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10611-2	PTLF 12WS 26				
Barium Chromium Lead Zinc Mercury		300 330 690 640 0.46	0.99 0.99 0.99 0.99 0.050	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10611-3	PTLF 12WS 27				
Barium Chromium Lead Zinc Mercury		400 200 800 700 0.29	0.96 0.96 0.96 0.96 0.052	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10611-4	PTLF 12WS 28				
Barium Chromium Lead Zinc Mercury		230 190 750 550 0.32	0.99 0.99 0.99 0.99 0.051	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A

METHOD SUMMARY

Client: ERRG Job Number: 720-10611-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10611-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10611-1	PTLF 12WS 25	Solid	08/30/2007 1700	08/31/2007 0915
720-10611-2	PTLF 12WS 26	Solid	08/30/2007 1710	08/31/2007 0915
720-10611-3	PTLF 12WS 27	Solid	08/30/2007 1715	08/31/2007 0915
720-10611-4	PTLF 12WS 28	Solid	08/30/2007 1720	08/31/2007 0915

Client: ERRG Job Number: 720-10611-1

Client Sample ID: PTLF 12WS 25

 Lab Sample ID:
 720-10611-1
 Date Sampled:
 08/30/2007
 1700

 Client Matrix:
 Solid
 Date Received:
 08/31/2007
 0915

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25606 Instrument ID: Varian ICP

Preparation: 3050B Prep Batch: 720-25624 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g

Date Analyzed: 09/04/2007 2152 Final Weight/Volume: 50 mL

Date Analyzed: 09/04/2007 2152 Date Prepared: 09/04/2007 1422

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.98
Barium		220		0.98
Cadmium		ND		0.49
Chromium		330		0.98
Lead		420		0.98
Selenium		ND		2.0
Silver		ND		0.98
7inc		440		0.98

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25614 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-25601 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.98 g

Date Analyzed: 09/04/2007 1203 Final Weight/Volume: 50 mL Date Prepared: 09/04/2007 0839

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.16 0.051

Client: ERRG Job Number: 720-10611-1

Client Sample ID: PTLF 12WS 26

Lab Sample ID: 720-10611-2 Date Sampled: 08/30/2007 1710 Date Received: Client Matrix: Solid 08/31/2007 0915

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25606 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-25624 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g Final Weight/Volume: 50 mL Date Analyzed: 09/04/2007 2155

Date Prepared: 09/04/2007 1422

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.99
Barium		300		0.99
Cadmium		ND		0.50
Chromium		330		0.99
Lead		690		0.99
Selenium		ND		2.0
Silver		ND		0.99
Zinc		640		0.99

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: **FIMS 100** 7471A Analysis Batch: 720-25614 Instrument ID: Preparation: 7471A Prep Batch: 720-25601 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g Final Weight/Volume: Date Analyzed: 09/04/2007 1204 50 mL

Date Prepared: 09/04/2007 0839

RLAnalyte DryWt Corrected: N Result (mg/Kg) Qualifier Mercury 0.46 0.050

Client: ERRG Job Number: 720-10611-1

Client Sample ID: PTLF 12WS 27

 Lab Sample ID:
 720-10611-3
 Date Sampled:
 08/30/2007
 1715

 Client Matrix:
 Solid
 Date Received:
 08/31/2007
 0915

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-25606Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-25624Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.04 g

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 09/04/2007 2159 Final Weight/Volume: 50 mL

Date Prepared: 09/04/2007 1422

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.96
Barium		400		0.96
Cadmium		ND		0.48
Chromium		200		0.96
Lead		800		0.96
Selenium		ND		1.9
Silver		ND		0.96
Zinc		700		0.96

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25614 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-25601 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.97 g

Date Analyzed: 09/04/2007 1205 Final Weight/Volume: 50 mL Date Prepared: 09/04/2007 0839

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.29
 0.052

Client: ERRG Job Number: 720-10611-1

Client Sample ID: PTLF 12WS 28

 Lab Sample ID:
 720-10611-4
 Date Sampled:
 08/30/2007 1720

 Client Matrix:
 Solid
 Date Received:
 08/31/2007 0915

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25606 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-25624 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g
Date Analyzed: 09/04/2007 2202 Final Weight/Volume: 50 mL

Date Prepared: 09/04/2007 1422

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.99
Barium		230		0.99
Cadmium		ND		0.50
Chromium		190		0.99
Lead		750		0.99
Selenium		ND		2.0
Silver		ND		0.99
Zinc		550		0.99

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-25614Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-25601Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 09/04/2007 1206 Final Weight/Volume: 50 mL

Date Analyzed: 09/04/2007 1206 Final Weight/Volume
Date Prepared: 09/04/2007 0839

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.32
 0.051

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10611-1

Lab Section	Qualifier	Description	
Metals			
	F	MS or MSD exceeds the control limits	

Client: ERRG Job Number: 720-10611-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals	•				•
Prep Batch: 720-25601					
LCS 720-25601/2-A	Lab Control Spike	Т	Solid	7471A	
LCSD 720-25601/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	
MB 720-25601/1-A	Method Blank	Т	Solid	7471A	
720-10567-A-34-H MS	Matrix Spike	Т	Solid	7471A	
720-10567-A-34-I MSD	Matrix Spike Duplicate	Т	Solid	7471A	
720-10611-1	PTLF 12WS 25	Т	Solid	7471A	
720-10611-2	PTLF 12WS 26	Т	Solid	7471A	
720-10611-3	PTLF 12WS 27	T	Solid	7471A	
720-10611-4	PTLF 12WS 28	Т	Solid	7471A	
Analysis Batch:720-2560	6				
LCS 720-25624/2-A	Lab Control Spike	Т	Solid	6010B	720-25624
LCSD 720-25624/3-A	Lab Control Spike Duplicate	Т	Solid	6010B	720-25624
LCSSRM 720-25624/24-B	LCS-Standard Reference Material	Т	Solid	6010B	720-25624
MB 720-25624/1-A	Method Blank	Т	Solid	6010B	720-25624
720-10584-A-3-E MS	Matrix Spike	Т	Solid	6010B	720-25624
720-10584-A-3-F MSD	Matrix Spike Duplicate	Т	Solid	6010B	720-25624
720-10611-1	PTLF 12WS 25	Т	Solid	6010B	720-25624
720-10611-2	PTLF 12WS 26	Т	Solid	6010B	720-25624
720-10611-3	PTLF 12WS 27	Т	Solid	6010B	720-25624
720-10611-4	PTLF 12WS 28	T	Solid	6010B	720-25624
Analysis Batch:720-2561	4				
LCS 720-25601/2-A	Lab Control Spike	Т	Solid	7471A	720-25601
LCSD 720-25601/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	720-25601
MB 720-25601/1-A	Method Blank	Т	Solid	7471A	720-25601
720-10567-A-34-H MS	Matrix Spike	Т	Solid	7471A	720-25601
720-10567-A-34-I MSD	Matrix Spike Duplicate	Т	Solid	7471A	720-25601
720-10611-1	PTLF 12WS 25	Т	Solid	7471A	720-25601
720-10611-2	PTLF 12WS 26	Т	Solid	7471A	720-25601
720-10611-3	PTLF 12WS 27	Т	Solid	7471A	720-25601
720-10611-4	PTLF 12WS 28	T	Solid	7471A	720-25601
Prep Batch: 720-25624					
LCS 720-25624/2-A	Lab Control Spike	Т	Solid	3050B	
LCSD 720-25624/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
LCSSRM 720-25624/24-B	LCS-Standard Reference Material	T	Solid	3050B	
MB 720-25624/1-A	Method Blank	T	Solid	3050B	
720-10584-A-3-E MS	Matrix Spike	T	Solid	3050B	
720-10584-A-3-F MSD	Matrix Spike Duplicate	T	Solid	3050B	
720-10611-1	PTLF 12WS 25	Т	Solid	3050B	
720-10611-2	PTLF 12WS 26	Ť	Solid	3050B	
720-10611-3	PTLF 12WS 27	Ť	Solid	3050B	
720-10611-4	PTLF 12WS 28	T	Solid	3050B	

Client: ERRG Job Number: 720-10611-1

QC Association Summary

Report

Lab Sample ID Client Sample ID Basis Client Matrix Method Prep Batch

Report Basis

T = Total

Client: ERRG Job Number: 720-10611-1

Method Blank - Batch: 720-25624

Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-25624/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/04/2007 2105 Date Prepared: 09/04/2007 1422 Analysis Batch: 720-25606 Prep Batch: 720-25624

Units: mg/Kg

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Barium	ND		1.0
Cadmium	ND		0.50
Chromium	ND		1.0
Lead	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Zinc	ND		1.0

LCS-Standard Reference Material - Batch: 720-25624

Method: 6010B Preparation: 3050B

Lab Sample ID: LCSSRM 720-25624/24-B

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/04/2007 2238 Date Prepared: 09/04/2007 1422 Analysis Batch: 720-25606 Prep Batch: 720-25624

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1.02 g Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	22.7	19.4	85	72 - 128	
Barium	145	120	83	80 - 120	
Cadmium	42.2	36.7	87	80 - 120	
Chromium	246	222	90	80 - 120	
Lead	44.1	36.9	84	75 - 126	
Selenium	165	156	94	80 - 120	
Silver	79.5	62.0	78	72 - 127	
Zinc	44.0	36.0	82	75 - 125	

Client: ERRG Job Number: 720-10611-1

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-25624 Preparation: 3050B

LCS Lab Sample ID: LCS 720-25624/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/04/2007 2109 Date Prepared: 09/04/2007 1422 Analysis Batch: 720-25606 Instrument ID: Varian ICP Prep Batch: 720-25624 Lab File ID: N/A

Units: mg/Kg Initial Weight/Volume:

1 g Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25624/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/04/2007 2117 Date Prepared: 09/04/2007 1422 Analysis Batch: 720-25606 Instrument ID: Varian ICP

Prep Batch: 720-25624 Lab File ID: N/A

Initial Weight/Volume: 1 g Units: mg/Kg Final Weight/Volume: 50 mL

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	100	98	80 - 120	2	20		
Barium	91	89	80 - 120	2	20		
Cadmium	96	95	80 - 120	1	20		
Chromium	97	96	80 - 120	2	20		
Lead	94	93	80 - 120	1	20		
Selenium	104	103	80 - 120	1	20		
Silver	100	98	80 - 120	2	20		
Zinc	96	95	80 - 120	1	20		

Client: ERRG Job Number: 720-10611-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-25624

Method: 6010B Preparation: 3050B

MS Lab Sample ID: 720-10584-A-3-E MS

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/04/2007 2123 Date Prepared: 09/04/2007 1422 Analysis Batch: 720-25606 Instrument ID: Varian ICP

Prep Batch: 720-25624 Lab File ID: N/A Initial Weight/Volume: 1.01 g

MSD Lab Sample ID: 720-10584-A-3-F MSD Analysis Batch: 720-25606 Instrument ID: Varian ICP

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/04/2007 2127 Date Prepared: 09/04/2007 1422 Prep Batch: 720-25624 Lab File ID: N/A

Initial Weight/Volume: 1.01 g Final Weight/Volume: 50 mL

Final Weight/Volume: 50 mL

	<u>% R</u>	ec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	88	84	75 - 125	4	20		
Barium	74	68	75 - 125	4	20	F	F
Cadmium	83	80	75 - 125	4	20		
Chromium	85	81	75 - 125	4	20		
Lead	79	70	75 - 125	5	20		F
Selenium	92	88	75 - 125	4	20		
Silver	93	86	75 - 125	7	20		
Zinc	77	71	75 - 125	4	20		F

Client: ERRG Job Number: 720-10611-1

Method Blank - Batch: 720-25601 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25601/1-A Analysis Batch: 720-25614 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25601 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/04/2007 1155 Final Weight/Volume: 50 mL
Date Prepared: 09/04/2007 0839

Analyte Result Qual RL

Mercury ND 0.050

Lab Control Spike/ Method: 7471A
Lab Control Spike Duplicate Recovery Report - Batch: 720-25601 Preparation: 7471A

LCS Lab Sample ID: LCS 720-25601/2-A Analysis Batch: 720-25614 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25601 Lab File ID: N/A

Client Matrix: Solid Prep Batch: 720-25601 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/04/2007 1156 Final Weight/Volume: 50 mL

Date Prepared: 09/04/2007 0839

LCSD Lab Sample ID: LCSD 720-25601/3-A Analysis Batch: 720-25614 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25601 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Dildtion: 1.0 Onlis. Hig/kg Hillar Weight/Volume: 1 g

Date Analyzed: 09/04/2007 1158 Final Weight/Volume: 50 mL

Date Prepared: 09/04/2007 0839

Client: ERRG Job Number: 720-10611-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-25601 Preparation: 7471A

MS Lab Sample ID: 720-10567-A-34-H MS Analysis Batch: 720-25614 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25601 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.95 g
Date Analyzed: 09/04/2007 1159 Final Weight/Volume: 50 mL

Date Analyzed: 09/04/2007 1159 Final Weight/Volume: 50 mL Date Prepared: 09/04/2007 0839

MSD Lab Sample ID: 720-10567-A-34-I MSD Analysis Batch: 720-25614 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25601 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g

Date Analyzed: 09/04/2007 1200 Final Weight/Volume: 50 ml

Date Analyzed: 09/04/2007 1200 Final Weight/Volume: 50 mL Date Prepared: 09/04/2007 0839

 MS
 MSD
 Limit
 RPD
 RPD Limit
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 Mercury
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Engineering / Reme 185 Mason Circle, S Concord, CA 94520 Phone: (925) 969-0751 Project Contact (Hardcopy or PDF To):	Suite A	35	<u>) – </u>					_	1 T	Lab	No Chain-of-Custody Rec		e 1 <u>of 1</u> d Ana		XG98 Reque	/
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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10611-1

Login Number: 10611

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	METALS ONLY
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	RECIVED 1 BROKEN JAR FOR PTLF WS 28-TRANSFERRED INTO ANOTHER JAR
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10611-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/06/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10611-2

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General ChemistryNo analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10611-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10611-1	PTLF 12WS 25				
STLC Citrate Lead Chromium		34 0.91	0.50 0.50	mg/L mg/L	6010B 6010B
<i>TCLP</i> Lead		1.1	0.50	mg/L	6010B
720-10611-2	PTLF 12WS 26				
STLC Citrate Lead Chromium		53 0.72	0.50 0.50	mg/L mg/L	6010B 6010B
<i>TCLP</i> Lead		4.3	0.50	mg/L	6010B
720-10611-3	PTLF 12WS 27				
STLC Citrate Lead Chromium		75 1.1	0.50 0.50	mg/L mg/L	6010B 6010B
TCLP Lead		2.4	0.50	mg/L	6010B
720-10611-4	PTLF 12WS 28				
STLC Citrate Lead Chromium		45 0.55	0.50 0.50	mg/L mg/L	6010B 6010B
<i>TCLP</i> Lead		1.4	0.50	mg/L	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-10611-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10611-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10611-1	PTLF 12WS 25	Solid	08/30/2007 1700	08/31/2007 0915
720-10611-2	PTLF 12WS 26	Solid	08/30/2007 1710	08/31/2007 0915
720-10611-3	PTLF 12WS 27	Solid	08/30/2007 1715	08/31/2007 0915
720-10611-4	PTLF 12WS 28	Solid	08/30/2007 1720	08/31/2007 0915

Client: ERRG Job Number: 720-10611-2

Client Sample ID: PTLF 12WS 25

 Lab Sample ID:
 720-10611-1
 Date Sampled:
 08/30/2007 1700

 Client Matrix:
 Solid
 Date Received:
 08/31/2007 0915

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-25679 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25666 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25612 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/05/2007 1149
Date Prepared: 09/05/2007 0820
Date Leached: 09/04/2007 1241

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 1.1
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25748Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-25752Lab File ID:N/ADilution:1.0Leachate Batch: 720-25604Initial Weight/Volume:5 mL

Date Analyzed: 09/06/2007 1133
Date Prepared: 09/06/2007 1025
Date Leached: 09/04/2007 1029

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 34
 0.50

 Chromium
 0.91
 0.50

Client: ERRG Job Number: 720-10611-2

Client Sample ID: PTLF 12WS 26

 Lab Sample ID:
 720-10611-2
 Date Sampled:
 08/30/2007 1710

 Client Matrix:
 Solid
 Date Received:
 08/31/2007 0915

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Method: Analysis Batch: 720-25679 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25666 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25612 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/05/2007 1152
Date Prepared: 09/05/2007 0820
Date Leached: 09/04/2007 1241

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 4.3
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25748Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-25752Lab File ID:N/ADilution:1.0Leachate Batch: 720-25604Initial Weight/Volume:5 mL

Date Analyzed: 09/06/2007 1137 Date Prepared: 09/06/2007 1025 Date Leached: 09/04/2007 1029

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 53
 0.50

 Chromium
 0.72
 0.50

Client: ERRG Job Number: 720-10611-2

Client Sample ID: PTLF 12WS 27

 Lab Sample ID:
 720-10611-3
 Date Sampled:
 08/30/2007 1715

 Client Matrix:
 Solid
 Date Received:
 08/31/2007 0915

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Method: Analysis Batch: 720-25679 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25666 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25612 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/05/2007 1156
Date Prepared: 09/05/2007 0820
Date Leached: 09/04/2007 1241

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 2.4
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25748Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-25752Lab File ID:N/ADilution:1.0Leachate Batch: 720-25604Initial Weight/Volume:5 mL

Date Analyzed: 09/06/2007 1140
Date Prepared: 09/06/2007 1025
Date Leached: 09/04/2007 1029

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 75
 0.50

 Chromium
 1.1
 0.50

Client: ERRG Job Number: 720-10611-2

Client Sample ID: PTLF 12WS 28

 Lab Sample ID:
 720-10611-4
 Date Sampled:
 08/30/2007 1720

 Client Matrix:
 Solid
 Date Received:
 08/31/2007 0915

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Method: Analysis Batch: 720-25679 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25666 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25612 Initial Weight/Volume: 5 mL Final Weight/Volume: Date Analyzed: 09/05/2007 1200 50 mL

Date Analyzed: 09/05/2007 1200
Date Prepared: 09/05/2007 0820
Date Leached: 09/04/2007 1241

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 1.4
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25748Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-25752Lab File ID:N/ADilution:1.0Leachate Batch: 720-25604Initial Weight/Volume:5 mL

Date Analyzed: 09/06/2007 1143
Date Prepared: 09/06/2007 1025
Date Leached: 09/04/2007 1029

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 45
 0.50

 Chromium
 0.55
 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10611-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
	Chefit Sample ID	Buoio	CHETIC WALLIX	Wethou	Fiep Batch
Metals					
Prep Batch: 720-25604					
LCS 720-25604/2-B	Lab Control Spike	С	Solid	CA WET Citrate	
LCSD 720-25604/3-B	Lab Control Spike Duplicate	С	Solid	CA WET Citrate	
MB 720-25604/1-B	Method Blank	С	Solid	CA WET Citrate	
720-10611-1	PTLF 12WS 25	С	Solid	CA WET Citrate	
720-10611-2	PTLF 12WS 26	С	Solid	CA WET Citrate	
720-10611-3	PTLF 12WS 27	С	Solid	CA WET Citrate	
720-10611-4	PTLF 12WS 28	С	Solid	CA WET Citrate	
Prep Batch: 720-25612					
MB 720-25612/1-B	Method Blank	Р	Solid	1311	
720-10611-1	PTLF 12WS 25	Р	Solid	1311	
720-10611-2	PTLF 12WS 26	Р	Solid	1311	
720-10611-3	PTLF 12WS 27	Р	Solid	1311	
720-10611-4	PTLF 12WS 28	Р	Solid	1311	
Prep Batch: 720-25666					
LCS 720-25666/2-A	Lab Control Spike	Т	Water	3010A	
LCSD 720-25666/3-A	Lab Control Spike Duplicate	Ť	Water	3010A	
MB 720-25612/1-B	Method Blank	Р	Solid	3010A	720-25612
720-10611-1MS	Matrix Spike	Р	Solid	3010A	
720-10611-1MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10611-1	PTLF 12WS 25	Р	Solid	3010A	720-25612
720-10611-2	PTLF 12WS 26	Р	Solid	3010A	720-25612
720-10611-3	PTLF 12WS 27	Р	Solid	3010A	720-25612
720-10611-4	PTLF 12WS 28	Р	Solid	3010A	720-25612
Analysis Batch:720-256	79				
MB 720-25612/1-B	Method Blank	Р	Solid	6010B	720-25666
LCS 720-25666/2-A	Lab Control Spike	T.	Water	6010B	720-25666
LCSD 720-25666/3-A	Lab Control Spike Duplicate	Ť	Water	6010B	720-25666
720-10611-1	PTLF 12WS 25	P	Solid	6010B	720-25666
720-10611-1MS	Matrix Spike	P	Solid	6010B	720-25666
720-10611-1MSD	Matrix Spike Duplicate	P	Solid	6010B	720-25666
720-10611-2	PTLF 12WS 26	Р	Solid	6010B	720-25666
720-10611-3	PTLF 12WS 27	P	Solid	6010B	720-25666
720-10611-4	PTLF 12WS 28	P	Solid	6010B	720-25666

Client: ERRG Job Number: 720-10611-2

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:720-25	748				
LCS 720-25604/2-B	Lab Control Spike	С	Solid	6010B	720-25752
LCSD 720-25604/3-B	Lab Control Spike Duplicate	С	Solid	6010B	720-25752
MB 720-25604/1-B	Method Blank	С	Solid	6010B	720-25752
720-10611-1	PTLF 12WS 25	С	Solid	6010B	720-25752
720-10611-1MS	Matrix Spike	С	Solid	6010B	720-25752
720-10611-1MSD	Matrix Spike Duplicate	С	Solid	6010B	720-25752
720-10611-2	PTLF 12WS 26	С	Solid	6010B	720-25752
720-10611-3	PTLF 12WS 27	С	Solid	6010B	720-25752
720-10611-4	PTLF 12WS 28	С	Solid	6010B	720-25752
Prep Batch: 720-25752					
LCS 720-25604/2-B	Lab Control Spike	С	Solid	3005A	720-25604
LCSD 720-25604/3-B	Lab Control Spike Duplicate	С	Solid	3005A	720-25604
MB 720-25604/1-B	Method Blank	С	Solid	3005A	720-25604
720-10611-1MS	Matrix Spike	С	Solid	3005A	
720-10611-1MSD	Matrix Spike Duplicate	С	Solid	3005A	
720-10611-1	PTLF 12WS 25	С	Solid	3005A	720-25604
720-10611-2	PTLF 12WS 26	С	Solid	3005A	720-25604
720-10611-3	PTLF 12WS 27	С	Solid	3005A	720-25604
720-10611-4	PTLF 12WS 28	С	Solid	3005A	720-25604

Report Basis

C = STLC Citrate

P = TCLP

T = Total

Client: ERRG Job Number: 720-10611-2

Method Blank - Batch: 720-25666 Method: 6010B Preparation: 3010A

Units: mg/L

Prep Batch: 720-25666

TCLP

Lab Sample ID: MB 720-25612/1-B Analysis Batch: 720-25679

Client Matrix: Solid
Dilution: 1.0

Date Analyzed: 09/05/2007 1130

Date Prepared: 09/05/2007 0820

Date Leached: 09/04/2007 1241 Leachate Batch: 720-25612

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

 Analyte
 Result
 Qual
 RL

 Lead
 ND
 0.50

 Chromium
 ND
 0.50

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25666 Preparation: 3010A

LCS Lab Sample ID: LCS 720-25666/2-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 09/05/2007 1133

Date Analyzed: 09/05/2007 1133
Date Prepared: 09/05/2007 0820

Analysis Batch: 720-25679 Inst

Prep Batch: 720-25666

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25666/3-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 09/05/2007 1137 Date Prepared: 09/05/2007 0820 Analysis Batch: 720-25679 Instru

Prep Batch: 720-25666

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec. RPD RPD Limit LCS Qual LCSD Qual Analyte LCS LCSD Limit Lead 96 95 80 - 120 1 20 Chromium 98 96 80 - 120 20 1

Client: ERRG Job Number: 720-10611-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25666

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: 720-10611-1 Client Matrix:

Solid

1.0

Date Analyzed: 09/05/2007 1141 Date Prepared: 09/05/2007 0820 Analysis Batch: 720-25679 Instrument ID: Varian ICP Prep Batch: 720-25666

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10611-1

Client Matrix: Dilution:

Dilution:

Solid 1.0

Date Analyzed: 09/05/2007 1145 Date Prepared: 09/05/2007 0820 Analysis Batch: 720-25679

Prep Batch: 720-25666

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	94	95	75 - 125	0	20	
Chromium	97	97	75 - 125	0	20	

Client: ERRG Job Number: 720-10611-2

Method Blank - Batch: 720-25752

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-25604/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/06/2007 1109

Date Leached: 09/04/2007 1029

Date Prepared: 09/06/2007 1025

Leachate Batch: 720-25604

Units: mg/L

Analysis Batch: 720-25748 Instrument ID: Varian ICP Prep Batch: 720-25752 Lab File ID: N/A

> Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-25752

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

5 mL

50 mL

LCS Lab Sample ID: LCS 720-25604/2-B

Client Matrix: Dilution:

Solid

Date Analyzed: Date Prepared: 1.0 09/06/2007 1113

09/06/2007 1025 09/04/2007 1029 Date Leached:

LCSD Lab Sample ID: LCSD 720-25604/3-B

Client Matrix:

Dilution: 1.0

Date Analyzed:

Date Prepared: Date Leached:

Solid

09/06/2007 1116 09/06/2007 1025

09/04/2007 1029

Analysis Batch: 720-25748

Prep Batch: 720-25752

Units: mg/L

Leachate Batch: 720-25604

Analysis Batch: 720-25748 Prep Batch: 720-25752

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume:

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-25604

% Rec

Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	99	99	80 - 120	0	20		
Chromium	101	101	80 - 120	0	20		

Client: ERRG Job Number: 720-10611-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25752

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID:

720-10611-1

Analysis Batch: 720-25748

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25752

Lab File ID: N/A

Dilution: Date Analyzed: 1.0

Initial Weight/Volume: 5 mL

Date Prepared:

09/06/2007 1120 09/06/2007 1025

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10611-1

Client Matrix:

Date Prepared:

Analyte Lead Chromium Solid

Analysis Batch: 720-25748

Instrument ID: Varian ICP Lab File ID: N/A

Dilution:

1.0

Prep Batch: 720-25752

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed:

09/06/2007 1123

09/06/2007 1025

<u>% R</u>	ec.				
MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
96	88	80 - 120	2	20	
99	98	80 - 120	1	20	

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Sample					z gla							Ì	STLC Pb	RCAA	0.121	1CLP	J	٦٢/						qur	E E	r La
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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10611-2

Login Number: 10611

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	METALS ONLY
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	RECIVED 1 BROKEN JAR FOR PTLF WS 28-TRANSFERRED INTO ANOTHER JAR
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10627-1 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/06/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10627-1

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10627-1

Lab Sample ID	Client Sample ID		Reporting		
Analyte		Result / Qualifier	Limit	Units	Method
720-10627-5	PTLF 12WS29 A-D				
Barium		230	0.96	mg/Kg	6010B
Chromium		170	0.96	mg/Kg	6010B
Lead		440	0.96	mg/Kg	6010B
Zinc		550	0.96	mg/Kg	6010B
Mercury		0.22	0.048	mg/Kg	7471A

METHOD SUMMARY

Client: ERRG Job Number: 720-10627-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor	TAL SF	SW846 7471A	
Technique) Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10627-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10627-5	PTLF 12WS29 A-D	Solid	09/04/2007 1800	09/05/2007 0940

Client: ERRG Job Number: 720-10627-1

Client Sample ID: PTLF 12WS29 A-D

 Lab Sample ID:
 720-10627-5
 Date Sampled:
 09/04/2007 1800

 Client Matrix:
 Solid
 Date Received:
 09/05/2007 0940

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25748 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-25674 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 09/06/2007 0824 Final Weight/Volume: 50 mL

Date Analyzed: 09/06/2007 0824 Date Prepared: 09/05/2007 1056

Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RLArsenic ND 0.96 Barium 230 0.96 Cadmium ND 0.48 Chromium 170 0.96 Lead 440 0.96 Selenium ND 1.9 Silver ND 0.96 Zinc 550 0.96

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25690 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-25669 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g

Date Analyzed: 09/05/2007 1227 Final Weight/Volume: 50 mL Date Prepared: 09/05/2007 0924

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.22 0.048

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10627-1

Lab Section	Qualifier	Description
Metals		
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits

Client: ERRG Job Number: 720-10627-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals	Choir Campio is		Onone matrix	motilod	1 Top Baton
Prep Batch: 720-25669					
LCS 720-25669/2-A	Lab Control Spike	Т	Solid	7471A	
LCSD 720-25669/3-A	Lab Control Spike Duplicate	Ť	Solid	7471A	
MB 720-25669/1-A	Method Blank	Ť	Solid	7471A	
720-10587-A-1-E MS	Matrix Spike	Т	Solid	7471A	
720-10587-A-1-F MSD	Matrix Spike Duplicate	Т	Solid	7471A	
720-10627-5	PTLF 12WS29 A-D	Т	Solid	7471A	
Prep Batch: 720-25674					
LCS 720-25674/2-A	Lab Control Spike	Т	Solid	3050B	
LCSD 720-25674/3-A	Lab Control Spike Duplicate	Т	Solid	3050B	
MB 720-25674/1-A	Method Blank	T	Solid	3050B	
720-10609-A-8-B MS	Matrix Spike	Т	Solid	3050B	
720-10609-A-8-C MSD	Matrix Spike Duplicate	T	Solid	3050B	
720-10627-5	PTLF 12WS29 A-D	Т	Solid	3050B	
Analysis Batch:720-2567					
LCS 720-25674/2-A	Lab Control Spike	Т	Solid	6010B	720-25674
LCSD 720-25674/3-A	Lab Control Spike Duplicate	Т	Solid	6010B	720-25674
MB 720-25674/1-A	Method Blank	Т	Solid	6010B	720-25674
Analysis Batch:720-2569					
LCS 720-25669/2-A	Lab Control Spike	Т	Solid	7471A	720-25669
LCSD 720-25669/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	720-25669
MB 720-25669/1-A	Method Blank	T	Solid	7471A	720-25669
720-10587-A-1-E MS	Matrix Spike	T	Solid	7471A	720-25669
720-10587-A-1-F MSD	Matrix Spike Duplicate	T	Solid	7471A	720-25669
720-10627-5	PTLF 12WS29 A-D	Т	Solid	7471A	720-25669
Analysis Batch:720-2574		_			
720-10609-A-8-B MS	Matrix Spike	T	Solid	6010B	720-25674
720-10609-A-8-C MSD	Matrix Spike Duplicate	T	Solid	6010B	720-25674
720-10627-5	PTLF 12WS29 A-D	Т	Solid	6010B	720-25674

Report Basis T = Total

1.0

Client: ERRG Job Number: 720-10627-1

Method Blank - Batch: 720-25674 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-25674/1-A Analysis Batch: 720-25679 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25674 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/05/2007 2033 Final Weight/Volume: 50 mL
Date Prepared: 09/05/2007 1056

Qual RL Analyte Result Arsenic ND 1.0 Barium ND 1.0 Cadmium ND 0.50 Chromium ND 1.0 Lead ND 1.0 Selenium ND 2.0 Silver ND 1.0

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25674 Preparation: 3050B

ND

LCS Lab Sample ID: LCS 720-25674/2-A Analysis Batch: 720-25679 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25674 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/05/2007 2036 Final Weight/Volume: 50 mL

Date Analyzed: 09/05/2007 2036 Final Weight/Volume: 50 mL Date Prepared: 09/05/2007 1056

LCSD Lab Sample ID: LCSD 720-25674/3-A Analysis Batch: 720-25679 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25674 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/05/2007 2040 Final Weight/Volume: 50 mL
Date Prepared: 09/05/2007 1056

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit Arsenic 97 94 80 - 120 2 20 80 - 120 20 Barium 90 88 2 80 - 120 2 Cadmium 92 90 20 Chromium 95 92 80 - 120 3 20 2 Lead 92 90 80 - 120 20 Selenium 98 96 80 - 120 2 20 Silver 99 96 80 - 120 2 20 Zinc 92 89 80 - 120 2 20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Zinc

Client: ERRG Job Number: 720-10627-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-25674

Method: 6010B Preparation: 3050B

MS Lab Sample ID: 720-10609-A-8-B MS

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/06/2007 0832 Date Prepared: 09/05/2007 1056 Analysis Batch: 720-25748 Instrument ID: Varian ICP Prep Batch: 720-25674 Lab File ID: N/A

Initial Weight/Volume: 1.01 g Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10609-A-8-C MSD

Client Matrix: Solid
Dilution: 1.0

Date Analyzed: 09/06/2007 0836 Date Prepared: 09/05/2007 1056 Analysis Batch: 720-25748 Instrument ID: Varian ICP Prep Batch: 720-25674 Lab File ID: N/A

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

	<u>%</u>	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	70	68	75 - 125	2	20	F	F
Barium	64	62	75 - 125	1	20	F	F
Cadmium	59	57	75 - 125	2	20	F	F
Chromium	75	68	75 - 125	3	20		F
Lead	62	60	75 - 125	2	20	F	F
Selenium	67	65	75 - 125	2	20	F	F
Silver	74	72	75 - 125	2	20	F	F
Zinc	62	60	75 - 125	2	20	F	F

Client: ERRG Job Number: 720-10627-1

Method Blank - Batch: 720-25669 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25669/1-A Analysis Batch: 720-25690 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25669 Lab File ID: N/A

Units: mg/Kg Dilution: 1.0 Initial Weight/Volume: 1.00 g Date Analyzed: 09/05/2007 1155 Final Weight/Volume: 50 mL Date Prepared: 09/05/2007 0924

Qual RL Analyte Result

Mercury ND 0.050

Lab Control Spike/ Method: 7471A Lab Control Spike Duplicate Recovery Report - Batch: 720-25669 Preparation: 7471A

Instrument ID: FIMS 100 LCS Lab Sample ID: LCS 720-25669/2-A Analysis Batch: 720-25690

Client Matrix: Solid Prep Batch: 720-25669 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1.00 g

09/05/2007 1156 Final Weight/Volume: Date Analyzed: 50 mL Date Prepared: 09/05/2007 0924

LCSD Lab Sample ID: LCSD 720-25669/3-A Analysis Batch: 720-25690 Instrument ID: **FIMS 100**

Client Matrix: Solid Prep Batch: 720-25669 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1.00 g 09/05/2007 1157 Date Analyzed: Final Weight/Volume: 50 mL

Date Prepared: 09/05/2007 0924

% Rec. Analyte LCS LCSD Limit **RPD** RPD Limit LCS Qual LCSD Qual Mercury 104 106 85 - 115

Client: ERRG Job Number: 720-10627-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-25669 Preparation: 7471A

09/05/2007 0924

MS Lab Sample ID: 720-10587-A-1-E MS Analysis Batch: 720-25690 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25669 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g
Date Analyzed: 09/05/2007 1158 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10587-A-1-F MSD Analysis Batch: 720-25690 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25669 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g

Date Analyzed: 09/05/2007 1159 Final Weight/Volume: 50 ml

Date Analyzed: 09/05/2007 1159 Final Weight/Volume: 50 mL Date Prepared: 09/05/2007 0924

 MS
 MSD
 Limit
 RPD
 RPD Limit
 MS Qual
 MSD Qual

 Mercury
 108
 115
 85 - 115
 5
 20

Date Prepared:

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10627-1

Login Number: 10627

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10627-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/07/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10627-2

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General ChemistryNo analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10627-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	Method		
720-10627-5	PTLF 12WS29 A-D							
STLC Citrate								
Lead		31	0.50	mg/L	6010B			
Chromium		0.62	0.50	mg/L	6010B			
TCLP								
Lead		1.1	0.50	mg/L	6010B			

METHOD SUMMARY

Client: ERRG Job Number: 720-10627-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10627-2

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10627-5	PTLF 12WS29 A-D	Solid	09/04/2007 1800	09/05/2007 0940

Analytical Data

Client: ERRG Job Number: 720-10627-2

Client Sample ID: PTLF 12WS29 A-D

 Lab Sample ID:
 720-10627-5
 Date Sampled:
 09/04/2007 1800

 Client Matrix:
 Solid
 Date Received:
 09/05/2007 0940

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-25802 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25783 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25713 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/07/2007 0111 Date Prepared: 09/06/2007 1506 Date Leached: 09/05/2007 1438

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 1.1
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25817Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-25816Lab File ID:N/ADilution:1.0Leachate Batch: 720-25682Initial Weight/Volume:5 mL

Date Analyzed: 09/07/2007 1252 Date Prepared: 09/07/2007 1140 Date Leached: 09/05/2007 1205

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 31
 0.50

 Chromium
 0.62
 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10627-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25682					
720-10627-5	PTLF 12WS29 A-D	С	Solid	CA WET Citrate	
Prep Batch: 720-25713					
LCS 720-25713/15-B	Lab Control Spike	Р	Solid	1311	
LCSD 720-25713/16-B	Lab Control Spike Duplicate	Р	Solid	1311	
MB 720-25713/1-B	Method Blank	Р	Solid	1311	
720-10627-5	PTLF 12WS29 A-D	Р	Solid	1311	
Prep Batch: 720-25722					
MB 720-25722/1-B	Method Blank	С	Solid	CA WET Citrate	
Prep Batch: 720-25783					
LCS 720-25713/15-B	Lab Control Spike	Р	Solid	3010A	720-25713
LCSD 720-25713/16-B	Lab Control Spike Duplicate	Р	Solid	3010A	720-25713
MB 720-25713/1-B	Method Blank	Р	Solid	3010A	720-25713
720-10533-A-18-D MS	Matrix Spike	Р	Solid	3010A	
720-10533-A-18-E MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10627-5	PTLF 12WS29 A-D	Р	Solid	3010A	720-25713
Analysis Batch:720-2580	2				
LCS 720-25713/15-B	Lab Control Spike	Р	Solid	6010B	720-25783
LCSD 720-25713/16-B	Lab Control Spike Duplicate	Р	Solid	6010B	720-25783
MB 720-25713/1-B	Method Blank	Р	Solid	6010B	720-25783
720-10533-A-18-D MS	Matrix Spike	Р	Solid	6010B	720-25783
720-10533-A-18-E MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-25783
720-10627-5	PTLF 12WS29 A-D	Р	Solid	6010B	720-25783
Prep Batch: 720-25816					
LCS 720-25816/2-A	Lab Control Spike	R	Water	3005A	
LCSD 720-25816/3-A	Lab Control Spike Duplicate	R	Water	3005A	
MB 720-25722/1-B	Method Blank	С	Solid	3005A	720-25722
720-10627-5MS	Matrix Spike	С	Solid	3005A	
720-10627-5MSD	Matrix Spike Duplicate	С	Solid	3005A	
720-10627-5	PTLF 12WS29 A-D	С	Solid	3005A	720-25682
Analysis Batch:720-2581					
MB 720-25722/1-B	Method Blank	С	Solid	6010B	720-25816
LCS 720-25816/2-A	Lab Control Spike	R	Water	6010B	720-25816
LCSD 720-25816/3-A	Lab Control Spike Duplicate	R	Water	6010B	720-25816
720-10627-5	PTLF 12WS29 A-D	С	Solid	6010B	720-25816
720-10627-5MS	Matrix Spike	С	Solid	6010B	720-25816
720-10627-5MSD	Matrix Spike Duplicate	С	Solid	6010B	720-25816

Client: ERRG Job Number: 720-10627-2

QC Association Summary

Report

Lab Sample ID Client Sample ID Basis Client Matrix Method Prep Batch

Report Basis

C = STLC Citrate

P = TCLP

R = Total Recoverable

Client: ERRG Job Number: 720-10627-2

Method Blank - Batch: 720-25783 Method: 6010B Preparation: 3010A

TCLP Lab Sample ID: MB 720-25713/1-B Analysis Batch: 720-25802

Prep Batch: 720-25783 Units: mg/L Dilution: 1.0

09/05/2007 1438

Date Analyzed: 09/07/2007 0003 Date Prepared: 09/06/2007 1506

Solid

Client Matrix:

Date Leached:

Date Leached: 09/05/2007 1438 Leachate Batch: 720-25713 Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Method: 6010B Lab Control Spike/ Lab Control Spike Duplicate Recovery Report - Batch: 720-25783 Preparation: 3010A **TCLP**

LCS Lab Sample ID: LCS 720-25713/15-B Analysis Batch: 720-25802 Instrument ID: Varian ICP Client Matrix: Solid Prep Batch: 720-25783 Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL

Date Analyzed: 09/07/2007 0006 Final Weight/Volume: 50 mL

Leachate Batch: 720-25713

Date Prepared: 09/06/2007 1506

LCSD Lab Sample ID: LCSD 720-25713/16-B Analysis Batch: 720-25802 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25783 Lab File ID: N/A Dilution: 1.0

Units: mg/L Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL Date Analyzed: 09/07/2007 0010

Date Prepared: 09/06/2007 1506

Date Leached: 09/05/2007 1438 Leachate Batch: 720-25713

% Rec. RPD Limit LCS Qual LCSD Qual Analyte LCS LCSD Limit **RPD** Lead 98 96 80 - 120 2 20 Chromium 98 96 80 - 120 2 20

Client: ERRG Job Number: 720-10627-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25783

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID:

720-10533-A-18-D MS Analysis Batch: 720-25802

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25783

Lab File ID: N/A

Dilution:

1.0

Initial Weight/Volume: 5 mL

Date Analyzed: Date Prepared:

09/07/2007 0014 09/06/2007 1506

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10533-A-18-E MSD Analysis Batch: 720-25802

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25783

Lab File ID: N/A

Dilution:

1.0

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: Date Prepared:

09/07/2007 0018 09/06/2007 1506

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	97	98	75 - 125	1	20	
Chromium	98	99	75 - 125	1	20	

Client: ERRG Job Number: 720-10627-2

Method Blank - Batch: 720-25816

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-25722/1-B

Client Matrix: Solid

Dilution: 1.0 Date Analyzed: 09/07/2007 1234

Date Prepared: 09/07/2007 1140

Date Leached: 09/05/2007 1523

Analysis Batch: 720-25817

Prep Batch: 720-25816

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-25722

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-25816

Method: 6010B Preparation: 3005A **Total Recoverable**

LCS Lab Sample ID: LCS 720-25816/2-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 09/07/2007 1237 Date Prepared: 09/07/2007 1140 Analysis Batch: 720-25817

Prep Batch: 720-25816

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25816/3-A

Client Matrix: Dilution:

Water 1.0

Date Analyzed: 09/07/2007 1241 Date Prepared: 09/07/2007 1140 Analysis Batch: 720-25817 Prep Batch: 720-25816

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

	9	<u> 6 Rec.</u>			
Analyte	LCS	LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qual
Lead	93	93	80 - 120	0	20
Chromium	93	94	80 - 120	0	20

Client: ERRG Job Number: 720-10627-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25816

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID: Client Matrix:

720-10627-5 Solid

Analysis Batch: 720-25817 Prep Batch: 720-25816

Instrument ID: Varian ICP

Lab File ID: N/A

Dilution: 1.0

Date Analyzed: 09/07/2007 1245 Date Prepared: 09/07/2007 1140 Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10627-5

Client Matrix: Solid

1.0 Dilution:

Date Analyzed: 09/07/2007 1249 Date Prepared: 09/07/2007 1140 Analysis Batch: 720-25817

Instrument ID: Varian ICP Prep Batch: 720-25816 Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec

Analyte	MS 70.1	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	80	88	80 - 120	2	20	
Chromium	92	93	80 - 120	1	20	

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10627-2

Login Number: 10627

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10640-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Sharma

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/07/2007

cc: Mr. Goose Tucker

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10640-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
			-			
720-10640-5	PTLF 12WS 30 A-D					
STLC Citrate						
Lead		19	0.50	mg/L	6010B	
Chromium		0.58	0.50	mg/L	6010B	
TCLP						
Lead		0.79	0.50	mg/L	6010B	

METHOD SUMMARY

Client: ERRG Job Number: 720-10640-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10640-2

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10640-5	PTLF 12WS 30 A-D	Solid	09/05/2007 1324	09/05/2007 1430

Analytical Data

Client: ERRG Job Number: 720-10640-2

Client Sample ID: PTLF 12WS 30 A-D

 Lab Sample ID:
 720-10640-5
 Date Sampled:
 09/05/2007 1324

 Client Matrix:
 Solid
 Date Received:
 09/05/2007 1430

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-25817 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25834 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25799 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/07/2007 1651 Date Prepared: 09/07/2007 1340 Date Leached: 09/06/2007 2104

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 0.79
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25817Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-25816Lab File ID:N/ADilution:1.0Leachate Batch: 720-25722Initial Weight/Volume:5 mL

Date Analyzed: 09/07/2007 1502 Date Prepared: 09/07/2007 1140 Date Leached: 09/05/2007 1523

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 19
 0.50

 Chromium
 0.58
 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10640-2

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25722					
MB 720-25722/1-B	Method Blank	С	Solid	CA WET Citrate	
720-10640-5	PTLF 12WS 30 A-D	С	Solid	CA WET Citrate	
Prep Batch: 720-25799					
иВ 720-25799/1-В	Method Blank	Р	Solid	1311	
720-10640-5	PTLF 12WS 30 A-D	Р	Solid	1311	
Prep Batch: 720-25816					
_CS 720-25816/2-A	Lab Control Spike	R	Water	3005A	
_CSD 720-25816/3-A	Lab Control Spike Duplicate	R	Water	3005A	
MB 720-25722/1-B	Method Blank	С	Solid	3005A	720-25722
720-10627-A-5-F MS	Matrix Spike	С	Solid	3005A	
720-10627-A-5-G MSD	Matrix Spike Duplicate	С	Solid	3005A	
720-10640-5	PTLF 12WS 30 A-D	С	Solid	3005A	720-25722
Analysis Batch:720-258	17				
MB 720-25722/1-B	Method Blank	С	Solid	6010B	720-25816
_CS 720-25816/2-A	Lab Control Spike	R	Water	6010B	720-25816
_CSD 720-25816/3-A	Lab Control Spike Duplicate	R	Water	6010B	720-25816
MB 720-25799/1-B	Method Blank	Р	Solid	6010B	720-25834
_CS 720-25834/2-A	Lab Control Spike	Т	Water	6010B	720-25834
_CSD 720-25834/3-A	Lab Control Spike Duplicate	Т	Water	6010B	720-25834
720-10627-A-5-F MS	Matrix Spike	С	Solid	6010B	720-25816
720-10627-A-5-G MSD	Matrix Spike Duplicate	С	Solid	6010B	720-25816
720-10640-5	PTLF 12WS 30 A-D	С	Solid	6010B	720-25816
720-10640-5	PTLF 12WS 30 A-D	Р	Solid	6010B	720-25834
720-10640-5MS	Matrix Spike	Р	Solid	6010B	720-25834
720-10640-5MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-25834
Prep Batch: 720-25834					
_CS 720-25834/2-A	Lab Control Spike	Т	Water	3010A	
_CSD 720-25834/3-A	Lab Control Spike Duplicate	Т	Water	3010A	
MB 720-25799/1-B	Method Blank	Р	Solid	3010A	720-25799
720-10640-5MS	Matrix Spike	Р	Solid	3010A	
720-10640-5MSD	Matrix Spike Duplicate	Р	Solid	3010A	
	PTLF 12WS 30 A-D	Р			

Report Basis

C = STLC Citrate

P = TCLP

R = Total Recoverable

T = Total

Client: ERRG Job Number: 720-10640-2

Method Blank - Batch: 720-25816

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-25722/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/07/2007 1234 Date Prepared: 09/07/2007 1140

Date Leached: 09/05/2007 1523

Analysis Batch: 720-25817 Prep Batch: 720-25816

Units: mg/L

Leachate Batch: 720-25722

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-25816

Method: 6010B Preparation: 3005A **Total Recoverable**

LCS Lab Sample ID: LCS 720-25816/2-A

Client Matrix: Dilution:

Water

Date Analyzed:

1.0

09/07/2007 1237 Date Prepared: 09/07/2007 1140 Analysis Batch: 720-25817

Prep Batch: 720-25816

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25816/3-A

Client Matrix:

Water

Dilution: 1.0

Date Analyzed: 09/07/2007 1241 Date Prepared: 09/07/2007 1140 Analysis Batch: 720-25817

Prep Batch: 720-25816

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

	<u>9</u> /	<u>6 Rec.</u>					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	93	93	80 - 120	0	20		
Chromium	93	94	80 - 120	0	20		

Client: ERRG Job Number: 720-10640-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25816

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID:

720-10627-A-5-F MS

Analysis Batch: 720-25817

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25816

Lab File ID: N/A

Dilution:

1.0

Initial Weight/Volume: 5 mL

Date Analyzed: Date Prepared: 09/07/2007 1245 09/07/2007 1140

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10627-A-5-G MSD Analysis Batch: 720-25817

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25816

Lab File ID: N/A

Dilution:

1.0

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: Date Prepared:

09/07/2007 1249 09/07/2007 1140

% Rec

<u>70</u>	Rec.				
MS	MSD	I imit	RPD	RPD Limit	MS Qual MSD Qual
90	QQ	90 120	2	20	
00	00	80 - 120	2	20	
92	93	80 - 120	1	20	
	MS 80	80 88	MS MSD Limit 80 88 80 - 120	MS MSD Limit RPD 80 88 80 - 120 2	MS MSD Limit RPD RPD Limit 80 88 80 - 120 2 20

Client: ERRG Job Number: 720-10640-2

Method Blank - Batch: 720-25834 Method: 6010B Preparation: 3010A

TCLP

Lab Sample ID: MB 720-25799/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/07/2007 1633 Date Prepared: 09/07/2007 1340

Date Leached: 09/06/2007 2104

Analysis Batch: 720-25817 Prep Batch: 720-25834

Units: mg/L

Leachate Batch: 720-25799

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-25834 Preparation: 3010A

LCS Lab Sample ID: LCS 720-25834/2-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 09/07/2007 1636 Date Prepared: 09/07/2007 1340 Analysis Batch: 720-25817

Prep Batch: 720-25834

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25834/3-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 09/07/2007 1640 Date Prepared: 09/07/2007 1340 Analysis Batch: 720-25817 Prep Batch: 720-25834

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

	<u>9</u> /	6 Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	96	98	80 - 120	2	20		
Chromium	96	98	80 - 120	2	20		

Client: ERRG Job Number: 720-10640-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25834

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: Client Matrix:

720-10640-5 Solid

Analysis Batch: 720-25817 Prep Batch: 720-25834 Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Dilution: 1.0

Date Analyzed: 09/07/2007 1644 Date Prepared: 09/07/2007 1340

Analysis Batch: 720-25817 Instrument ID: Varian ICP Prep Batch: 720-25834 Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10640-5

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/07/2007 1647 Date Prepared: 09/07/2007 1340

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	95	96	75 - 125	1	20	
Chromium	95	96	75 - 125	1	20	

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Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A Concord, CA 94520 Phone: (925) 969-0750

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10640-2

Login Number: 10640

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	SAMPLED < 4 HRS AGO
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10640-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel



Designee for
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
09/06/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10640-1

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10640-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10640-5	PTLF 12WS 30 A-D					
Barium		190	0.98	mg/Kg	6010B	
Chromium		110	0.98	mg/Kg	6010B	
Lead		210	0.98	mg/Kg	6010B	
Zinc		330	0.98	mg/Kg	6010B	
Mercury		0.34	0.050	mg/Kg	7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10640-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10640-1

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10640-5	PTLF 12WS 30 A-D	Solid	09/05/2007 1324	09/05/2007 1430

Analytical Data

Client: ERRG Job Number: 720-10640-1

Client Sample ID: PTLF 12WS 30 A-D

 Lab Sample ID:
 720-10640-5
 Date Sampled:
 09/05/2007
 1324

 Client Matrix:
 Solid
 Date Received:
 09/05/2007
 1430

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25748 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-25708 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g
Date Analyzed: 09/06/2007 1625 Final Weight/Volume: 50 mL

Date Prepared: 09/05/2007 1428

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.98
Barium		190		0.98
Cadmium		ND		0.49
Chromium		110		0.98
Lead		210		0.98
Selenium		ND		2.0
Silver		ND		0.98
Zinc		330		0.98

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25765 Instrument ID: FIMS 100
Preparation: 7471A Prep Batch: 720-25741 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g

Date Analyzed: 09/06/2007 1226 Final Weight/Volume: 50 mL

Date Prepared: 09/06/2007 0726

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.34 0.050

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10640-1

QC Association Summary

Lab Sample ID (Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<u> </u>	Silent Sample iD	Dasis	Chefft Watrix	Metriou	Prep Batch
Metals					
Prep Batch: 720-25708					
LCS 720-25708/2-A	Lab Control Spike	Т	Solid	3050B	
LCSD 720-25708/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
LCSSRM 720-25708/25-A	LCS-Standard Reference Material	Т	Solid	3050B	
MB 720-25708/1-A	Method Blank	T	Solid	3050B	
720-10640-5	PTLF 12WS 30 A-D	T	Solid	3050B	
Prep Batch: 720-25741					
LCS 720-25741/2-A	Lab Control Spike	T	Solid	7471A	
LCSD 720-25741/3-A	Lab Control Spike Duplicate	T	Solid	7471A	
MB 720-25741/1-A	Method Blank	T	Solid	7471A	
720-10633-A-2-D MS	Matrix Spike	T	Solid	7471A	
720-10633-A-2-E MSD	Matrix Spike Duplicate	T	Solid	7471A	
720-10640-5	PTLF 12WS 30 A-D	Т	Solid	7471A	
Analysis Batch:720-25748					
LCS 720-25708/2-A	Lab Control Spike	T	Solid	6010B	720-25708
LCSD 720-25708/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-25708
LCSSRM 720-25708/25-A	LCS-Standard Reference Material	T	Solid	6010B	720-25708
MB 720-25708/1-A	Method Blank	T	Solid	6010B	720-25708
720-10640-5	PTLF 12WS 30 A-D	Т	Solid	6010B	720-25708
Analysis Batch:720-25765					
LCS 720-25741/2-A	Lab Control Spike	Т	Solid	7471A	720-25741
LCSD 720-25741/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	720-25741
MB 720-25741/1-A	Method Blank	Т	Solid	7471A	720-25741
720-10633-A-2-D MS	Matrix Spike	T	Solid	7471A	720-25741
720-10633-A-2-E MSD	Matrix Spike Duplicate	T	Solid	7471A	720-25741
720-10640-5	PTLF 12WS 30 A-D	T	Solid	7471A	720-25741

Report Basis T = Total

Client: ERRG Job Number: 720-10640-1

Method Blank - Batch: 720-25708

Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-25708/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/06/2007 1614 Date Prepared: 09/05/2007 1428 Analysis Batch: 720-25748 Prep Batch: 720-25708

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Barium	ND		1.0
Cadmium	ND		0.50
Chromium	ND		1.0
Lead	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Zinc	ND		1.0

LCS-Standard Reference Material - Batch: 720-25708

Method: 6010B Preparation: 3050B

Lab Sample ID: LCSSRM 720-25708/25-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/06/2007 1629 Date Prepared: 09/05/2007 1428 Analysis Batch: 720-25748 Prep Batch: 720-25708

Units: mg/Kg

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 1.00 g

Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	22.7	19.1	84	72 - 128	
Barium	145	118	81	80 - 120	
Cadmium	42.2	35.5	84	80 - 120	
Chromium	246	218	89	80 - 120	
Lead	44.1	36.7	83	75 - 126	
Selenium	165	149	90	80 - 120	
Silver	79.5	61.0	77	72 - 127	
Zinc	44.0	34.8	79	75 - 125	

Client: ERRG Job Number: 720-10640-1

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25708 Preparation: 3050B

LCS Lab Sample ID: LCS 720-25708/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/06/2007 1617 Date Prepared: 09/05/2007 1428 Analysis Batch: 720-25748 Instrumen
Prep Batch: 720-25708 Lab File II

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25708/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/06/2007 1621 Date Prepared: 09/05/2007 1428 Analysis Batch: 720-25748 Instrument ID: Prep Batch: 720-25708 Lab File ID:

Units: mg/Kg

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

	%	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	99	100	80 - 120	1	20		
Barium	91	92	80 - 120	1	20		
Cadmium	96	97	80 - 120	1	20		
Chromium	98	99	80 - 120	1	20		
Lead	95	97	80 - 120	1	20		
Selenium	102	103	80 - 120	1	20		
Silver	100	101	80 - 120	1	20		
Zinc	96	97	80 - 120	1	20		

Client: ERRG Job Number: 720-10640-1

Method Blank - Batch: 720-25741 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25741/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/06/2007 1216 Date Prepared: 09/06/2007 0726 Analysis Batch: 720-25765 Prep Batch: 720-25741

Units: mg/Kg

Instrument ID: FIMS 100 Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

Result Qual RLAnalyte Mercury ND 0.050

Lab Control Spike/ Method: 7471A Lab Control Spike Duplicate Recovery Report - Batch: 720-25741 Preparation: 7471A

LCS Lab Sample ID: LCS 720-25741/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/06/2007 1217

Date Prepared: 09/06/2007 0726 Analysis Batch: 720-25765 Prep Batch: 720-25741

Units: mg/Kg

Instrument ID: FIMS 100

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25741/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/06/2007 1219 Date Prepared: 09/06/2007 0726 Analysis Batch: 720-25765

Prep Batch: 720-25741

Units: mg/Kg

Instrument ID: **FIMS 100**

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

% Rec.

Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Mercury 113 115 85 - 115 20

Client: ERRG Job Number: 720-10640-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-25741 Preparation: 7471A

MS Lab Sample ID: 720-10633-A-2-D MS Analysis Batch: 720-25765 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25741 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 09/06/2007 1220 Final Weight/Volume: 50 mL
Date Prepared: 09/06/2007 0726

MSD Lab Sample ID: 720-10633-A-2-E MSD Analysis Batch: 720-25765 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25741 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g

Date Analyzed: 09/06/2007 1221 Final Weight/Volume: 50 ml

Date Analyzed: 09/06/2007 1221 Final Weight/Volume: 50 mL Date Prepared: 09/06/2007 0726

 MS
 MSD
 Limit
 RPD
 RPD Limit
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 MSD Qual

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Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A Concord, CA 94520

Phone: (925) 969-0750

		Lab No.	
720-	106	40	

Page 1 of 1

107016 Fax: (925) 969-0751 **Chain-of-Custody Record and Analysis Request** Project Contact (Hardcopy or PDF To): No TAT Electronic Deliverables To (Email Address):
Rowan Tocker & erry com
Tyson, Appel & erry com
Sampler: **Analysis Request** Laboratory / Address: Phone No.: Fax No.: 12 hr(24 hr) 48 hr/ 72 hr/STD wk) Project Number: Phase # / Task # 27-128 of Containers Project Address: Project Name: Presidio SF Presidio AIS BB 18 2 For Lab Use Only Matrix Container Sampling Project Manager: oz glass jar STLC Pb Sample **Designation** Time Date PTLF 12W5 30 A-D 7/5/07 1324 Time Received by: Remarks: Date Relinguished by: Time Received by: Date Relinquished by: Engineering / Remediation Resources Group, Inc Bill to: Relinquished by: 185 Mason Circle, Suite A Samuel Alux Concord, CA 94520

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10640-1

Login Number: 10640

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	SAMPLED < 4 HRS AGO
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10640-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Sharma

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/07/2007

cc: Mr. Goose Tucker

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10640-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
			-			
720-10640-5	PTLF 12WS 30 A-D					
STLC Citrate						
Lead		19	0.50	mg/L	6010B	
Chromium		0.58	0.50	mg/L	6010B	
TCLP						
Lead		0.79	0.50	mg/L	6010B	

METHOD SUMMARY

Client: ERRG Job Number: 720-10640-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10640-2

		Date/Time	Date/Time	
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10640-5	PTLF 12WS 30 A-D	Solid	09/05/2007 1324	09/05/2007 1430

Analytical Data

Client: ERRG Job Number: 720-10640-2

Client Sample ID: PTLF 12WS 30 A-D

 Lab Sample ID:
 720-10640-5
 Date Sampled:
 09/05/2007 1324

 Client Matrix:
 Solid
 Date Received:
 09/05/2007 1430

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-25817 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25834 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25799 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/07/2007 1651 Date Prepared: 09/07/2007 1340 Date Leached: 09/06/2007 2104

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 0.79
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-25817Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-25816Lab File ID:N/ADilution:1.0Leachate Batch: 720-25722Initial Weight/Volume:5 mL

Date Analyzed: 09/07/2007 1502 Date Prepared: 09/07/2007 1140 Date Leached: 09/05/2007 1523

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 19
 0.50

 Chromium
 0.58
 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10640-2

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25722					
MB 720-25722/1-B	Method Blank	С	Solid	CA WET Citrate	
720-10640-5	PTLF 12WS 30 A-D	С	Solid	CA WET Citrate	
Prep Batch: 720-25799					
иВ 720-25799/1-В	Method Blank	Р	Solid	1311	
720-10640-5	PTLF 12WS 30 A-D	Р	Solid	1311	
Prep Batch: 720-25816					
_CS 720-25816/2-A	Lab Control Spike	R	Water	3005A	
_CSD 720-25816/3-A	Lab Control Spike Duplicate	R	Water	3005A	
MB 720-25722/1-B	Method Blank	С	Solid	3005A	720-25722
720-10627-A-5-F MS	Matrix Spike	С	Solid	3005A	
720-10627-A-5-G MSD	Matrix Spike Duplicate	С	Solid	3005A	
720-10640-5	PTLF 12WS 30 A-D	С	Solid	3005A	720-25722
Analysis Batch:720-258	17				
MB 720-25722/1-B	Method Blank	С	Solid	6010B	720-25816
_CS 720-25816/2-A	Lab Control Spike	R	Water	6010B	720-25816
_CSD 720-25816/3-A	Lab Control Spike Duplicate	R	Water	6010B	720-25816
MB 720-25799/1-B	Method Blank	Р	Solid	6010B	720-25834
_CS 720-25834/2-A	Lab Control Spike	Т	Water	6010B	720-25834
_CSD 720-25834/3-A	Lab Control Spike Duplicate	Т	Water	6010B	720-25834
720-10627-A-5-F MS	Matrix Spike	С	Solid	6010B	720-25816
720-10627-A-5-G MSD	Matrix Spike Duplicate	С	Solid	6010B	720-25816
720-10640-5	PTLF 12WS 30 A-D	С	Solid	6010B	720-25816
720-10640-5	PTLF 12WS 30 A-D	Р	Solid	6010B	720-25834
720-10640-5MS	Matrix Spike	Р	Solid	6010B	720-25834
720-10640-5MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-25834
Prep Batch: 720-25834					
_CS 720-25834/2-A	Lab Control Spike	Т	Water	3010A	
_CSD 720-25834/3-A	Lab Control Spike Duplicate	Т	Water	3010A	
MB 720-25799/1-B	Method Blank	Р	Solid	3010A	720-25799
720-10640-5MS	Matrix Spike	Р	Solid	3010A	
720-10640-5MSD	Matrix Spike Duplicate	Р	Solid	3010A	
	PTLF 12WS 30 A-D	Р			

Report Basis

C = STLC Citrate

P = TCLP

R = Total Recoverable

T = Total

Client: ERRG Job Number: 720-10640-2

Method Blank - Batch: 720-25816

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-25722/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/07/2007 1234 Date Prepared: 09/07/2007 1140

Date Leached: 09/05/2007 1523

Analysis Batch: 720-25817 Prep Batch: 720-25816

Units: mg/L

Leachate Batch: 720-25722

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-25816

Method: 6010B Preparation: 3005A **Total Recoverable**

LCS Lab Sample ID: LCS 720-25816/2-A

Client Matrix: Dilution:

Water

Date Analyzed:

1.0

09/07/2007 1237 Date Prepared: 09/07/2007 1140 Analysis Batch: 720-25817

Prep Batch: 720-25816

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25816/3-A

Client Matrix:

Water

Dilution: 1.0

Date Analyzed: 09/07/2007 1241 Date Prepared: 09/07/2007 1140 Analysis Batch: 720-25817

Prep Batch: 720-25816

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

	<u>9</u> /	<u>6 Rec.</u>					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	93	93	80 - 120	0	20		
Chromium	93	94	80 - 120	0	20		

Client: ERRG Job Number: 720-10640-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25816

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID:

720-10627-A-5-F MS

Analysis Batch: 720-25817

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25816

Lab File ID: N/A

Dilution:

1.0

Initial Weight/Volume: 5 mL

Date Analyzed: Date Prepared: 09/07/2007 1245 09/07/2007 1140

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10627-A-5-G MSD Analysis Batch: 720-25817

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25816

Lab File ID: N/A

Dilution:

1.0

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: Date Prepared:

09/07/2007 1249 09/07/2007 1140

% Rec

<u>% Rec.</u>								
MS	MSD	I imit	RPD	RPD Limit	MS Qual MSD Qual			
80	QQ	90 120	2	20				
00	00	80 - 120	2	20				
92	93	80 - 120	1	20				
	MS 80	MS MSD 80 88	MS MSD Limit 80 88 80 - 120	MS MSD Limit RPD 80 88 80 - 120 2	MS MSD Limit RPD RPD Limit 80 88 80 - 120 2 20			

Client: ERRG Job Number: 720-10640-2

Method Blank - Batch: 720-25834 Method: 6010B Preparation: 3010A

TCLP

Lab Sample ID: MB 720-25799/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/07/2007 1633 Date Prepared: 09/07/2007 1340

Date Leached: 09/06/2007 2104

Analysis Batch: 720-25817 Prep Batch: 720-25834

Units: mg/L

Leachate Batch: 720-25799

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-25834 Preparation: 3010A

LCS Lab Sample ID: LCS 720-25834/2-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 09/07/2007 1636 Date Prepared: 09/07/2007 1340 Analysis Batch: 720-25817

Prep Batch: 720-25834

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25834/3-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 09/07/2007 1640 Date Prepared: 09/07/2007 1340 Analysis Batch: 720-25817 Prep Batch: 720-25834

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

	<u>9</u> /	6 Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	96	98	80 - 120	2	20		
Chromium	96	98	80 - 120	2	20		

Client: ERRG Job Number: 720-10640-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25834

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: Client Matrix:

720-10640-5 Solid

Analysis Batch: 720-25817 Prep Batch: 720-25834 Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Dilution: 1.0

Date Analyzed: 09/07/2007 1644 Date Prepared: 09/07/2007 1340

Analysis Batch: 720-25817 Instrument ID: Varian ICP Prep Batch: 720-25834 Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10640-5

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/07/2007 1647 Date Prepared: 09/07/2007 1340

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	95	96	75 - 125	1	20	
Chromium	95	96	75 - 125	1	20	

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185 Mason Circle, Suite A Concord, CA 94520 Phone: (925) 969-0750

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Page 1 <u>of 1</u>

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10640-2

Login Number: 10640

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	SAMPLED < 4 HRS AGO
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10662-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I

dimple.sharma@testamericainc.com
09/07/2007

: Mr. Goose Tucker

Job Narrative 720-J10662-1

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10662-1

Lab Sample ID	Client Sample ID	Popult / Qualifier	Reporting Limit	Unito	Mothod	
Analyte		Result / Qualifier	Lillit	Units	Method	
720-10662-5	PTLF 12WS 31A,B,0	C,D				
Barium		140	0.99	mg/Kg	6010B	
Chromium		120	0.99	mg/Kg	6010B	
Lead		220	0.99	mg/Kg	6010B	
Zinc		250	0.99	mg/Kg	6010B	
Mercury		0.20	0.050	mg/Kg	7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10662-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10662-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10662-5	PTLF 12WS 31A,B,C,D	Solid	09/06/2007 1115	09/06/2007 1155

Analytical Data

Client: ERRG Job Number: 720-10662-1

Client Sample ID: PTLF 12WS 31A,B,C,D

 Lab Sample ID:
 720-10662-5
 Date Sampled:
 09/06/2007
 1115

 Client Matrix:
 Solid
 Date Received:
 09/06/2007
 1155

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25802 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-25777 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g
Date Analyzed: 09/07/2007 0151 Final Weight/Volume: 50 mL

Date Analyzed: 09/07/2007 0151 Date Prepared: 09/06/2007 1344

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.99
Barium		140		0.99
Cadmium		ND		0.50
Chromium		120		0.99
Lead		220		0.99
Selenium		ND		2.0
Silver		ND		0.99
Zinc		250		0.99

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25837 Instrument ID: FIMS 100
Preparation: 7471A Prep Batch: 720-25804 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g

Date Analyzed: 09/07/2007 1158 Final Weight/Volume: 50 mL Date Prepared: 09/07/2007 0707

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.20 0.050

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10662-1

Lab Section	Qualifier	Description	
Metals			
	F	MS or MSD exceeds the control limits	

Client: ERRG Job Number: 720-10662-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25777					
LCS 720-25777/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-25777/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
MB 720-25777/1-A	Method Blank	T	Solid	3050B	
720-10662-5	PTLF 12WS 31A,B,C,D	T	Solid	3050B	
720-10665-A-1-D MS	Matrix Spike	T	Solid	3050B	
720-10665-A-1-E MSD	Matrix Spike Duplicate	Т	Solid	3050B	
Analysis Batch:720-258	302				
LCS 720-25777/2-A	Lab Control Spike	Т	Solid	6010B	720-25777
LCSD 720-25777/3-A	Lab Control Spike Duplicate	Т	Solid	6010B	720-25777
MB 720-25777/1-A	Method Blank	Т	Solid	6010B	720-25777
720-10662-5	PTLF 12WS 31A,B,C,D	Т	Solid	6010B	720-25777
720-10665-A-1-D MS	Matrix Spike	Т	Solid	6010B	720-25777
720-10665-A-1-E MSD	Matrix Spike Duplicate	T	Solid	6010B	720-25777
Prep Batch: 720-25804					
LCS 720-25804/2-A	Lab Control Spike	Т	Solid	7471A	
LCSD 720-25804/3-A	Lab Control Spike Duplicate	Ť	Solid	7471A	
MB 720-25804/1-A	Method Blank	Т	Solid	7471A	
720-10587-A-1-L MS	Matrix Spike	Ť	Solid	7471A	
720-10587-A-1-M MSD	Matrix Spike Duplicate	Ť	Solid	7471A	
720-10662-5	PTLF 12WS 31A,B,C,D	Ť	Solid	7471A	
Analysis Batch:720-258	137				
LCS 720-25804/2-A	Lab Control Spike	Т	Solid	7471A	720-25804
LCSD 720-25804/3-A	Lab Control Spike Duplicate	Ť	Solid	7471A	720-25804
MB 720-25804/1-A	Method Blank	Ť	Solid	7471A	720-25804
720-10587-A-1-L MS	Matrix Spike	Ť	Solid	7471A	720-25804
720-10587-A-1-M MSD	Matrix Spike Duplicate	Ť	Solid	7471A	720-25804
720-10667 7(1 M M M D D	PTLF 12WS 31A,B,C,D	Ť	Solid	7471A	720-25804
20 10002-0	1 121 12110 017,0,0,0	'	John	17117	120-20004

Report Basis T = Total

Client: ERRG Job Number: 720-10662-1

Method Blank - Batch: 720-25777 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-25777/1-A Analysis Batch: 720-25802 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25777 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/07/2007 0129 Final Weight/Volume: 50 mL

Date Prepared: 09/06/2007 1344

Analyte	Result Qual	RL
Arsenic	ND	1.0
Barium	ND	1.0
Cadmium	ND	0.50
Chromium	ND	1.0
Lead	ND	1.0
Selenium	ND	2.0
Silver	ND	1.0
7inc	ND	1.0

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25777 Preparation: 3050B

LCS Lab Sample ID: LCS 720-25777/2-A Analysis Batch: 720-25802 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25777 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/07/2007 0132 Final Weight/Volume: 50 mL

Date Analyzed: 09/07/2007 0132 Final Weight/Volume: 50 mL Date Prepared: 09/06/2007 1344

LCSD Lab Sample ID: LCSD 720-25777/3-A Analysis Batch: 720-25802 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25777 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/07/2007 0136 Final Weight/Volume: 50 mL
Date Prepared: 09/06/2007 1344

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	112	109	80 - 120	3	20		
Barium	92	90	80 - 120	3	20		
Cadmium	101	99	80 - 120	2	20		
Chromium	102	100	80 - 120	2	20		
Lead	99	97	80 - 120	2	20		
Selenium	116	113	80 - 120	3	20		
Silver	105	102	80 - 120	3	20		
Zinc	103	101	80 - 120	2	20		

Client: ERRG Job Number: 720-10662-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25777 Preparation: 3050B

MS Lab Sample ID:

720-10665-A-1-D MS

Instrument ID: Varian ICP

Method: 6010B

Client Matrix:

Solid

Analysis Batch: 720-25802 Prep Batch: 720-25777

Lab File ID: N/A

Dilution: Date Analyzed: 1.0

Initial Weight/Volume: 1.01 g

Date Prepared:

09/07/2007 0140 09/06/2007 1344

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10665-A-1-E MSD

Analysis Batch: 720-25802

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25777

Lab File ID: N/A

Dilution:

Analyte

Arsenic

1.0

Initial Weight/Volume: 0.99 g Final Weight/Volume: 50 mL

F

F

Date Analyzed: 09/07/2007 0144 Date Prepared: 09/06/2007 1344

> % Rec. MSD RPD MS Qual MSD Qual MS Limit **RPD Limit** 75 - 125 84 0 20 86 80 93 75 - 125 9 20

Barium Cadmium 74 73 75 - 125 1 20 Chromium 79 78 75 - 125 1 20 75 - 125 F Lead 74 74 1 20 87 86 75 - 125 1 20 Selenium Silver 84 82 75 - 125 0 20 Zinc 75 75 75 - 125 20 1

Client: ERRG Job Number: 720-10662-1

Method Blank - Batch: 720-25804 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25804/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/07/2007 1150 Date Prepared: 09/07/2007 0707 Analysis Batch: 720-25837 Prep Batch: 720-25804

Units: mg/Kg

Instrument ID: FIMS 100 Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

 Analyte
 Result
 Qual
 RL

 Mercury
 ND
 0.050

Lab Control Spike/ Method: 7471A
Lab Control Spike Duplicate Recovery Report - Batch: 720-25804 Preparation: 7471A

LCS Lab Sample ID: LCS 720-25804/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/07/2007 1151 Date Prepared: 09/07/2007 0707

2-A Analysis Batch: 720-25837 Prep Batch: 720-25804

Units: mg/Kg

Instrument ID: FIMS 100

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25804/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/07/2007 1153 Date Prepared: 09/07/2007 0707 Analysis Batch: 720-25837

Prep Batch: 720-25804

Units: mg/Kg

Instrument ID: FIMS 100

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

% Rec.

Analyte LCS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual

Mercury 101 102 85 - 115 1 20

Client: ERRG Job Number: 720-10662-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-25804 Preparation: 7471A

MS Lab Sample ID: 720-10587-A-1-L MS Analysis Batch: 720-25837 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25804 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g
Date Analyzed: 09/07/2007 1154 Final Weight/Volume: 50 mL
Date Prepared: 09/07/2007 0707

MSD Lab Sample ID: 720-10587-A-1-M MSD Analysis Batch: 720-25837 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25804 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g

Date Analyzed: 09/07/2007 1155 Final Weight/Volume: 50 ml

Date Analyzed: 09/07/2007 1155 Final Weight/Volume: 50 mL Date Prepared: 09/07/2007 0707

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Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A Concord, CA 94520

Phone: (925) 969-0750

770-	10662 Lab No.	
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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10662-1

Login Number: 10662

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10662-2

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
09/10/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10662-2

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General ChemistryNo analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10662-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10662-5	PTLF 12WS 31A,B,	C,D			
STLC Citrate Lead		14	0.50	mg/L	6010B
<i>TCLP</i> Lead		0.88	0.50	mg/L	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-10662-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10662-2

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10662-5	PTLF 12WS 31A,B,C,D	Solid	09/06/2007 1115	09/06/2007 1155

Analytical Data

50 mL

Client: ERRG Job Number: 720-10662-2

Client Sample ID: PTLF 12WS 31A,B,C,D

 Lab Sample ID:
 720-10662-5
 Date Sampled:
 09/06/2007
 1115

 Client Matrix:
 Solid
 Date Received:
 09/06/2007
 1155

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Final Weight/Volume:

Method:6010BAnalysis Batch: 720-25885Instrument ID:Varian ICPPreparation:3010APrep Batch: 720-25865Lab File ID:N/ADilution:1.0Leachate Batch: 720-25851Initial Weight/Volume:5 mL

Date Analyzed: 09/10/2007 1047
Date Prepared: 09/10/2007 0732
Date Leached: 09/07/2007 1700

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

<u>Lead</u> 0.88 0.50

Method: 6010B Analysis Batch: 720-25885 Instrument ID: Varian ICP

Preparation: 3005A Prep Batch: 720-25874 Lab File ID: N/A
Dilution: 1.0 Leachate Batch: 720-25859 Initial Weight/Volume: 5 mL
Date Analyzed: 09/10/2007 1132 Final Weight/Volume: 50 mL

Date Analyzed: 09/10/2007 1132
Date Prepared: 09/10/2007 0952
Date Leached: 09/07/2007 1929

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 14 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10662-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals	·				•
Prep Batch: 720-25851					
MB 720-25851/1-B	Method Blank	Р	Solid	1311	
720-10662-5	PTLF 12WS 31A,B,C,D	Р	Solid	1311	
Prep Batch: 720-25859					
LCS 720-25859/2-B	Lab Control Spike	С	Solid	CA WET Citrate	
LCSD 720-25859/3-B	Lab Control Spike Duplicate	C	Solid	CA WET Citrate	
MB 720-25859/1-B	Method Blank	C	Solid	CA WET Citrate	
720-10662-5	PTLF 12WS 31A,B,C,D	С	Solid	CA WET Citrate	
Prep Batch: 720-25865					
LCS 720-25865/2-A	Lab Control Spike	Т	Water	3010A	
LCSD 720-25865/3-A	Lab Control Spike Duplicate	Ť	Water	3010A	
MB 720-25851/1-B	Method Blank	Р	Solid	3010A	720-25851
720-10662-5MS	Matrix Spike	Р	Solid	3010A	
720-10662-5MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10662-5	PTLF 12WS 31A,B,C,D	Р	Solid	3010A	720-25851
Prep Batch: 720-25874					
LCS 720-25859/2-B	Lab Control Spike	С	Solid	3005A	720-25859
LCSD 720-25859/3-B	Lab Control Spike Duplicate	С	Solid	3005A	720-25859
MB 720-25859/1-B	Method Blank	С	Solid	3005A	720-25859
720-10662-5MS	Matrix Spike	С	Solid	3005A	
720-10662-5MSD	Matrix Spike Duplicate	С	Solid	3005A	
720-10662-5	PTLF 12WS 31A,B,C,D	С	Solid	3005A	720-25859
Analysis Batch:720-2588	35				
MB 720-25851/1-B	Method Blank	Р	Solid	6010B	720-25865
LCS 720-25865/2-A	Lab Control Spike	T	Water	6010B	720-25865
LCSD 720-25865/3-A	Lab Control Spike Duplicate	Т	Water	6010B	720-25865
LCS 720-25859/2-B	Lab Control Spike	С	Solid	6010B	720-25874
LCSD 720-25859/3-B	Lab Control Spike Duplicate	С	Solid	6010B	720-25874
MB 720-25859/1-B	Method Blank	С	Solid	6010B	720-25874
720-10662-5	PTLF 12WS 31A,B,C,D	Р	Solid	6010B	720-25865
720-10662-5MS	Matrix Spike	Р	Solid	6010B	720-25865
720-10662-5MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-25865
720-10662-5	PTLF 12WS 31A,B,C,D	С	Solid	6010B	720-25874
720-10662-5MS	Matrix Spike	С	Solid	6010B	720-25874
720-10662-5MSD	Matrix Spike Duplicate	С	Solid	6010B	720-25874

Report Basis

C = STLC Citrate

P = TCLP

T = Total

Client: ERRG Job Number: 720-10662-2

Method Blank - Batch: 720-25865 Method: 6010B Preparation: 3010A

TCLP

Lab File ID:

Lab Sample ID: MB 720-25851/1-B

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/10/2007 1029 Date Prepared: 09/10/2007 0732

Date Leached: 09/07/2007 1700

Units: mg/L

Leachate Batch: 720-25851

RL Analyte Result Qual Lead ND 0.50

Analysis Batch: 720-25885

Prep Batch: 720-25865

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-25865 Preparation: 3010A

LCS Lab Sample ID: LCS 720-25865/2-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 09/10/2007 1033 Date Prepared: 09/10/2007 0732 Analysis Batch: 720-25885 Prep Batch: 720-25865

Units: mg/L

Instrument ID: Varian ICP

Instrument ID: Varian ICP

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

N/A

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25865/3-A

Client Matrix: Water Dilution: 1.0

09/10/2007 1036 Date Analyzed: Date Prepared: 09/10/2007 0732 Analysis Batch: 720-25885

Prep Batch: 720-25865

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Lead 93 93 80 - 120 0

Client: ERRG Job Number: 720-10662-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25865

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: Client Matrix:

720-10662-5 Solid

Analysis Batch: 720-25885 Prep Batch: 720-25865

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL

Dilution: 1.0 Date Analyzed:

09/10/2007 1040 Date Prepared: 09/10/2007 0732 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10662-5

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: 09/10/2007 1043 Date Prepared: 09/10/2007 0732 Analysis Batch: 720-25885 Prep Batch: 720-25865

Instrument ID: Varian ICP Lab File ID: N/A

> Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	92	92	75 - 125	0	20	

Client: ERRG Job Number: 720-10662-2

Method Blank - Batch: 720-25874

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-25859/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/10/2007 1115 Date Prepared: 09/10/2007 0952

Date Leached: 09/07/2007 1929

Analysis Batch: 720-25885 Prep Batch: 720-25874

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

> Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-25859

RL Analyte Result Qual

Lead ND 0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-25874

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

5 mL

50 mL

LCS Lab Sample ID: LCS 720-25859/2-B

Client Matrix: Solid Dilution: 1.0

Date Analyzed:

09/10/2007 1118 Date Prepared: 09/10/2007 0952

Date Leached: 09/07/2007 1929

LCSD Lab Sample ID: LCSD 720-25859/3-B

Client Matrix: Solid Dilution: 1.0

09/10/2007 1122 Date Analyzed: Date Prepared: 09/10/2007 0952

Date Leached: 09/07/2007 1929 Analysis Batch: 720-25885 Prep Batch: 720-25874

Units: mg/L

Leachate Batch: 720-25859

Analysis Batch: 720-25885

Prep Batch: 720-25874

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume:

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Lead 91 90 80 - 120

Leachate Batch: 720-25859

Client: ERRG Job Number: 720-10662-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25874

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID:

720-10662-5

Analysis Batch: 720-25885

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25874

Lab File ID: N/A

Dilution:

1.0 Date Analyzed:

MSD Lab Sample ID: 720-10662-5

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Date Prepared:

09/10/2007 1125 09/10/2007 0952

Analysis Batch: 720-25885

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25874

Lab File ID: N/A

Initial Weight/Volume: 5 mL

Dilution: Date Analyzed:

1.0 09/10/2007 1129

Final Weight/Volume: 50 mL

Date Prepared:

09/10/2007 0952

% Rec

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
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Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A Concord, CA 94520

Phone: (925) 969-0750

770-	10662 Lab No.	
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Sample Designation	Date	Time		مالات 9 قد glass jar				soil		ľ	O.Pb	RCRA								12 hr 24 hr 48 hr 72 hr/STD		Number of Containers	Comments	For Lab Use Only
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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10662-2

Login Number: 10662

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10679-1 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/10/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10679-1

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10679-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10679-5	PTLF 12WS 32A-D					
Barium		140	0.99	mg/Kg	6010B	
Chromium		190	0.99	mg/Kg	6010B	
Lead		240	0.99	mg/Kg	6010B	
Zinc		210	0.99	mg/Kg	6010B	
Mercury		0.17	0.049	mg/Kg	7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10679-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor	TAL SF	SW846 7471A	
Technique) Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10679-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10679-5	PTLF 12WS 32A-D	Solid	09/07/2007 0730	09/07/2007 0840

Analytical Data

Client: ERRG Job Number: 720-10679-1

Client Sample ID: PTLF 12WS 32A-D

 Lab Sample ID:
 720-10679-5
 Date Sampled:
 09/07/2007 0730

 Client Matrix:
 Solid
 Date Received:
 09/07/2007 0840

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25817 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-25814 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g
Date Analyzed: 09/07/2007 2050 Final Weight/Volume: 50 mL

Date Analyzed: 09/07/2007 2050

Date Prepared: 09/07/2007 0926

Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RLArsenic ND 0.99 Barium 140 0.99 Cadmium ND 0.50 Chromium 190 0.99 Lead 240 0.99 Selenium ND 2.0 Silver ND 0.99 Zinc 210 0.99

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25888 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-25868 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g

Date Analyzed: 09/10/2007 1145 Final Weight/Volume: 50 mL

Date Prepared: 09/10/2007 0838

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.17 0.049

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10679-1

QC Association Summary

	•	Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25814					
LCS 720-25814/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-25814/3-A	Lab Control Spike Duplicate	Т	Solid	3050B	
LCSSRM 720-25814/25-A	LCS-Standard Reference Material	Т	Solid	3050B	
MB 720-25814/1-A	Method Blank	Т	Solid	3050B	
720-10628-A-1-H MS	Matrix Spike		Solid	3050B	
720-10628-A-1-I MSD	Matrix Spike Duplicate		Solid	3050B	
720-10679-5	PTLF 12WS 32A-D	T	Solid	3050B	
Analysis Batch:720-2581	7				
LCS 720-25814/2-A	Lab Control Spike	Т	Solid	6010B	720-25814
LCSD 720-25814/3-A	Lab Control Spike Duplicate	Ť	Solid	6010B	720-25814
LCSSRM 720-25814/25-A	LCS-Standard Reference Material	T	Solid	6010B	720-25814
MB 720-25814/1-A	Method Blank	Ť	Solid	6010B	720-25814
720-10628-A-1-H MS	Matrix Spike		Solid	6010B	720-25814
720-10628-A-1-I MSD	Matrix Spike Duplicate		Solid	6010B	720-25814
720-10679-5	PTLF 12WS 32A-D	Т	Solid	6010B	720-25814
Prep Batch: 720-25868					
LCS 720-25868/2-A	Lab Control Spike	Т	Solid	7471A	
LCSD 720-25868/3-A	Lab Control Spike Duplicate	Ť	Solid	7471A	
MB 720-25868/1-A	Method Blank	T	Solid	7471A	
720-10671-A-1-D MS	Matrix Spike	Ť	Solid	7471A	
720-10671-A-1-E MSD	Matrix Spike Duplicate	Ť	Solid	7471A	
720-10679-5	PTLF 12WS 32A-D	Ť	Solid	7471A	
Analysis Batch:720 2500	0				
Analysis Batch:720-25888 LCS 720-25868/2-A	Lab Control Spike	Т	Solid	7471A	720-25868
LCSD 720-25868/3-A	Lab Control Spike Lab Control Spike Duplicate	T T	Solid	7471A 7471A	720-25868
MB 720-25868/1-A	Method Blank	T T	Solid	7471A 7471A	720-25868
720-10671-A-1-D MS	Matrix Spike	T T	Solid	7471A 7471A	720-25868
720-10671-A-1-D MS 720-10671-A-1-E MSD	Matrix Spike Matrix Spike Duplicate	T T	Solid	7471A 7471A	720-25868
720-10671-A-1-E MSD 720-10679-5	PTLF 12WS 32A-D	T T	Solid	7471A 7471A	720-25868
720-10079-0	FILE IZWO OZA-D	I	Juliu	14111	120-20000

Report Basis

= Total/NA

T = Total

Client: ERRG Job Number: 720-10679-1

Method Blank - Batch: 720-25814

Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-25814/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/07/2007 2000 Date Prepared: 09/07/2007 0926 Analysis Batch: 720-25817

Prep Batch: 720-25814

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A Initial Weight/Volume: 1 g

Final Weight/Volume: 50 mL

Analyte	Result Qual	RL
Arsenic	ND	1.0
Barium	ND	1.0
Cadmium	ND	0.50
Chromium	ND	1.0
Lead	ND	1.0
Selenium	ND	2.0
Silver	ND	1.0
Zinc	ND	1.0

LCS-Standard Reference Material - Batch: 720-25814 Method: 6010B Preparation: 3050B

Lab Sample ID: LCSSRM 720-25814/25-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/07/2007 2153 Date Prepared: 09/07/2007 0926 Analysis Batch: 720-25817 Prep Batch: 720-25814

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	22.9	16.5	72	72 - 128	
Silver	80.3	59.1	74	72 - 127	

Client: ERRG Job Number: 720-10679-1

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25814 Preparation: 3050B

LCS Lab Sample ID: LCS 720-25814/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/07/2007 2007 Date Prepared: 09/07/2007 0926 Analysis Batch: 720-25817 In Prep Batch: 720-25814 La

Units: mg/Kg

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25814/3-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/07/2007 2011 Date Prepared: 09/07/2007 0926 Analysis Batch: 720-25817 Instrument ID: Varian ICP

Prep Batch: 720-25814 Lab File ID: N/A

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	92	95	80 - 120	3	20		
Barium	85	88	80 - 120	3	20		
Cadmium	91	94	80 - 120	3	20		
Chromium	92	95	80 - 120	3	20		
Lead	92	95	80 - 120	3	20		
Selenium	97	100	80 - 120	4	20		
Silver	86	89	80 - 120	3	20		
Zinc	91	94	80 - 120	3	20		

Client: ERRG Job Number: 720-10679-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25814

Method: 6010B Preparation: 3050B

Total/NA

MS Lab Sample ID:

720-10628-A-1-H MS

Analysis Batch: 720-25817

Instrument ID: Varian ICP N/A

Client Matrix:

Solid

Lab File ID:

Dilution:

1.0

Prep Batch: 720-25814

Initial Weight/Volume: 1.03 g

Date Analyzed: Date Prepared: 09/07/2007 2015 09/07/2007 0926

Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10628-A-1-I MSD

Instrument ID: Varian ICP

Client Matrix:

Solid 1.0

Analysis Batch: 720-25817 Lab File ID: N/A

Dilution:

Prep Batch: 720-25814

Initial Weight/Volume: 1.04 g Final Weight/Volume: 50 mL

Date Analyzed: 09/07/2007 2019 Date Prepared: 09/07/2007 0926

	<u>% R</u>	ec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	89	90	75 - 125	0	20		
Barium	80	81	75 - 125	0	20		
Cadmium	86	86	75 - 125	0	20		
Chromium	88	89	75 - 125	0	20		
Lead	87	87	75 - 125	0	20		
Selenium	92	93	75 - 125	0	20		
Silver	85	86	75 - 125	0	20		
Zinc	86	87	75 - 125	0	20		

Client: ERRG Job Number: 720-10679-1

Method Blank - Batch: 720-25868 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25868/1-A Analysis Batch: 720-25888

Instrument ID: FIMS 100 Client Matrix: Solid Prep Batch: 720-25868 Lab File ID: N/A

Units: mg/Kg Dilution: 1.0 Initial Weight/Volume: 1 g Date Analyzed: 09/10/2007 1134 Final Weight/Volume: 50 mL Date Prepared: 09/10/2007 0838

Qual RL Analyte Result

Mercury ND 0.050

Lab Control Spike/ Method: 7471A Lab Control Spike Duplicate Recovery Report - Batch: 720-25868 Preparation: 7471A

LCS Lab Sample ID: LCS 720-25868/2-A Instrument ID: FIMS 100 Analysis Batch: 720-25888

Client Matrix: Solid Prep Batch: 720-25868 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Final Weight/Volume: Date Analyzed: 09/10/2007 1135 50 mL Date Prepared: 09/10/2007 0838

LCSD Lab Sample ID: LCSD 720-25868/3-A Analysis Batch: 720-25888 Instrument ID: **FIMS 100**

Client Matrix: Solid Prep Batch: 720-25868 Lab File ID: N/A Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

09/10/2007 1136 Final Weight/Volume: 50 mL Date Analyzed: Date Prepared: 09/10/2007 0838

% Rec. Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Mercury 99 100 85 - 115

Client: ERRG Job Number: 720-10679-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-25868 Preparation: 7471A

MS Lab Sample ID: 720-10671-A-1-D MS Analysis Batch: 720-25888 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25868 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g
Date Analyzed: 09/10/2007 1137 Final Weight/Volume: 50 mL

Date Prepared: 09/10/2007 0838

MSD Lab Sample ID: 720-10671-A-1-E MSD Analysis Batch: 720-25888 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25868 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 1.00 g

Date Analyzed: 09/10/2007 1139 Final Weight/Volume: 50 mL
Date Prepared: 09/10/2007 0838

 MS
 MSD
 Limit
 RPD
 RPD Limit
 MS Qual
 MSD Qual

 Mercury
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 109
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Concord, CA 94520

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10679-1

Login Number: 10679

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	SAMPLED < 4 HOURS AGO
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10679-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Sharma

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/10/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10679-2

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General ChemistryNo analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10679-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10679-5	PTLF 12WS 32A-D					
STLC Citrate Lead		10	0.50	mg/L	6010B	
<i>TCLP</i> Lead		0.59	0.50	mg/L	6010B	

METHOD SUMMARY

Client: ERRG Job Number: 720-10679-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10679-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received

Analytical Data

Client: ERRG Job Number: 720-10679-2

Client Sample ID: PTLF 12WS 32A-D

 Lab Sample ID:
 720-10679-5
 Date Sampled:
 09/07/2007 0730

 Client Matrix:
 Solid
 Date Received:
 09/07/2007 0840

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:6010BAnalysis Batch: 720-25885Instrument ID:Varian ICPPreparation:3010APrep Batch: 720-25865Lab File ID:N/A

Dilution: 1.0 Leachate Batch: 720-25851 Initial Weight/Volume: 5 mL

Date Analyzed: 09/10/2007 1100 Final Weight/Volume: 50 mL

Date Prepared: 09/10/2007 0732

Date Prepared: 09/10/2007 0/32

Date Leached: 09/07/2007 1700

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 0.59
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: 6010B Analysis Batch: 720-25885 Instrument ID: Varian ICP
Preparation: 3005A Prep Batch: 720-25874 Lab File ID: N/A

Dilution: 1.0 Leachate Batch: 720-25859 Initial Weight/Volume: 5 ml

 Dilution:
 1.0
 Leachate Batch: 720-25859
 Initial Weight/Volume:
 5 mL

 Date Analyzed:
 09/10/2007 1136
 Final Weight/Volume:
 50 mL

 Date Prepared:
 09/10/2007 0952

 Date Leached:
 09/07/2007 1929

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 10 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10679-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals	·				·
Prep Batch: 720-25851					
MB 720-25851/1-B	Method Blank	Р	Solid	1311	
720-10679-5	PTLF 12WS 32A-D	Р	Solid	1311	
Prep Batch: 720-25859					
LCS 720-25859/2-B	Lab Control Spike	С	Solid	CA WET Citrate	
LCSD 720-25859/3-B	Lab Control Spike Duplicate	С	Solid	CA WET Citrate	
MB 720-25859/1-B	Method Blank	С	Solid	CA WET Citrate	
720-10679-5	PTLF 12WS 32A-D	С	Solid	CA WET Citrate	
Prep Batch: 720-25865					
LCS 720-25865/2-A	Lab Control Spike	Т	Water	3010A	
LCSD 720-25865/3-A	Lab Control Spike Duplicate	Т	Water	3010A	
MB 720-25851/1-B	Method Blank	Р	Solid	3010A	720-25851
720-10662-A-5-F MS	Matrix Spike	Р	Solid	3010A	
720-10662-A-5-G MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10679-5	PTLF 12WS 32A-D	Р	Solid	3010A	720-25851
Prep Batch: 720-25874					
LCS 720-25859/2-B	Lab Control Spike	С	Solid	3005A	720-25859
LCSD 720-25859/3-B	Lab Control Spike Duplicate	С	Solid	3005A	720-25859
MB 720-25859/1-B	Method Blank	С	Solid	3005A	720-25859
720-10662-A-5-I MS	Matrix Spike	С	Solid	3005A	
720-10662-A-5-J MSD	Matrix Spike Duplicate	С	Solid	3005A	
720-10679-5	PTLF 12WS 32A-D	С	Solid	3005A	720-25859
Analysis Batch:720-2588	35				
MB 720-25851/1-B	Method Blank	Р	Solid	6010B	720-25865
LCS 720-25865/2-A	Lab Control Spike	T	Water	6010B	720-25865
LCSD 720-25865/3-A	Lab Control Spike Duplicate	Т	Water	6010B	720-25865
LCS 720-25859/2-B	Lab Control Spike	С	Solid	6010B	720-25874
LCSD 720-25859/3-B	Lab Control Spike Duplicate	С	Solid	6010B	720-25874
MB 720-25859/1-B	Method Blank	С	Solid	6010B	720-25874
720-10662-A-5-F MS	Matrix Spike	Р	Solid	6010B	720-25865
720-10662-A-5-G MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-25865
720-10662-A-5-I MS	Matrix Spike	С	Solid	6010B	720-25874
720-10662-A-5-J MSD	Matrix Spike Duplicate	С	Solid	6010B	720-25874
720-10679-5	PTLF 12WS 32A-D	Р	Solid	6010B	720-25865
720-10679-5	PTLF 12WS 32A-D	С	Solid	6010B	720-25874

Report Basis

C = STLC Citrate

P = TCLP

T = Total

Client: ERRG Job Number: 720-10679-2

Method Blank - Batch: 720-25865 Method: 6010B Preparation: 3010A

TCLP

Lab File ID:

Lab Sample ID: MB 720-25851/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/10/2007 1029 Date Prepared: 09/10/2007 0732

Date Leached: 09/07/2007 1700

Units: mg/L

Leachate Batch: 720-25851

Analysis Batch: 720-25885

Prep Batch: 720-25865

RL Analyte Result Qual Lead ND 0.50

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-25865 Preparation: 3010A

LCS Lab Sample ID: LCS 720-25865/2-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 09/10/2007 1033

Date Prepared: 09/10/2007 0732

Prep Batch: 720-25865

Units: mg/L

Instrument ID: Varian ICP

Instrument ID: Varian ICP

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

N/A

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25865/3-A

Client Matrix: Water Dilution: 1.0

09/10/2007 1036 Date Analyzed: Date Prepared: 09/10/2007 0732 Analysis Batch: 720-25885

Analysis Batch: 720-25885

Prep Batch: 720-25865

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Lead 93 93 80 - 120 0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10679-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25865

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: 720-10662-A-5-F MS

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/10/2007 1040 Date Prepared: 09/10/2007 0732 Analysis Batch: 720-25885 Instrument ID: Varian ICP Prep Batch: 720-25865

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10662-A-5-G MSD

Solid Client Matrix: 1.0 Dilution:

Date Analyzed: 09/10/2007 1043 Date Prepared: 09/10/2007 0732 Analysis Batch: 720-25885 Instrument ID: Varian ICP Prep Batch: 720-25865 Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS .	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	92	92	75 - 125	0	20	

Client: ERRG Job Number: 720-10679-2

Method Blank - Batch: 720-25874 Method: 6010B Preparation: 3005A

Units: mg/L

STLC Citrate

Lab Sample ID: MB 720-25859/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/10/2007 1115

Date Prepared: 09/10/2007 0952

Date Leached: 09/07/2007 1929 Leachate Batch: 720-25859 Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

RL Analyte Result Qual Lead ND 0.50

Analysis Batch: 720-25885

Prep Batch: 720-25874

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-25874

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

5 mL

50 mL

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume:

LCS Lab Sample ID: LCS 720-25859/2-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/10/2007 1118 Date Prepared: 09/10/2007 0952

Date Leached: 09/07/2007 1929

LCSD Lab Sample ID: LCSD 720-25859/3-B

Client Matrix: Solid Dilution: 1.0

09/10/2007 1122 Date Analyzed:

Date Prepared: 09/10/2007 0952

Date Leached: 09/07/2007 1929 Analysis Batch: 720-25885 Prep Batch: 720-25874

Units: mg/L

Leachate Batch: 720-25859

Analysis Batch: 720-25885

Prep Batch: 720-25874

Units: mg/L

Leachate Batch: 720-25859

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Lead 91 90 80 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10679-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25874

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID:

720-10662-A-5-I MS

Analysis Batch: 720-25885

Instrument ID: Varian ICP

Client Matrix:

Solid

Prep Batch: 720-25874

N/A

Lab File ID:

Dilution: Date Analyzed: 1.0

09/10/2007 1125

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Date Prepared:

09/10/2007 0952

Instrument ID: Varian ICP

Client Matrix:

Solid

MSD Lab Sample ID: 720-10662-A-5-J MSD

Analysis Batch: 720-25885

Lab File ID: N/A

1.0

Prep Batch: 720-25874

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Dilution: Date Analyzed:

Date Prepared:

09/10/2007 1129

09/10/2007 0952

Analyte

% Rec. MS MSD

Limit

RPD **RPD Limit** MS Qual MSD Qual

80 - 120 Lead 86 84 1 20

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Concord, CA 94520

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10679-2

Login Number: 10679

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	SAMPLED < 4 HOURS AGO
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10715-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/11/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10715-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 25941 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10715-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10715-5	PTLF 12WS 33A-D				
	FILI 12443 33A-D	400			22125
Barium		120	1.0	mg/Kg	6010B
Chromium		180	1.0	mg/Kg	6010B
Lead		180	1.0	mg/Kg	6010B
Zinc		240	1.0	mg/Kg	6010B
Mercury		0.64	0.048	mg/Kg	7471A
720-10715-10	PTLF 12WS 34A-D				
Barium		180	1.0	mg/Kg	6010B
Chromium		220	1.0	mg/Kg	6010B
Lead		280	1.0	mg/Kg	6010B
Zinc		330	1.0	mg/Kg	6010B
Mercury		0.20	0.048	mg/Kg	7471A

METHOD SUMMARY

Client: ERRG Job Number: 720-10715-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor	TAL SF	SW846 7471A	
Technique) Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10715-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10715-5	PTLF 12WS 33A-D	Solid	09/10/2007 0845	09/10/2007 1020
720-10715-3	PTLF 12WS 34A-D	Solid	09/10/2007 0910	09/10/2007 1020

Analytical Data

Client: ERRG Job Number: 720-10715-1

Client Sample ID: PTLF 12WS 33A-D

 Lab Sample ID:
 720-10715-5
 Date Sampled:
 09/10/2007 0845

 Client Matrix:
 Solid
 Date Received:
 09/10/2007 1020

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25916 Instrument ID: Varian ICP

Preparation: 3050B Prep Batch: 720-25900 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 0.99 g

Date Analyzed: 09/10/2007 2159 Final Weight/Volume: 50 mL Date Prepared: 09/10/2007 1404

Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RLArsenic ND 1.0 Barium 120 1.0 Cadmium ND 0.51 Chromium 180 1.0 Lead 180 1.0 Selenium ND 2.0 Silver ND 1.0 Zinc 240 1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25948 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-25941 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g

Date Analyzed: 09/11/2007 0940 Final Weight/Volume: 50 mL

Date Prepared: 09/11/2007 0708

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.64 0.048

Analytical Data

Client: ERRG Job Number: 720-10715-1

Client Sample ID: PTLF 12WS 34A-D

Lab Sample ID: 720-10715-10 Date Sampled: 09/10/2007 0910 Date Received: Client Matrix: Solid 09/10/2007 1020

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25916 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-25900 Lab File ID: N/A Dilution: 1.0 Initial Weight/Volume: 0.97 g

Final Weight/Volume: 50 mL Date Analyzed: 09/10/2007 2211

Date Prepared: 09/10/2007 1404

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		1.0
Barium		180		1.0
Cadmium		ND		0.52
Chromium		220		1.0
Lead		280		1.0
Selenium		ND		2.1
Silver		ND		1.0
Zinc		330		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: **FIMS 100** 7471A Analysis Batch: 720-25948 Instrument ID: Preparation: 7471A Prep Batch: 720-25941 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g Final Weight/Volume: Date Analyzed: 09/11/2007 0941 50 mL

Date Prepared: 09/11/2007 0708

RLAnalyte DryWt Corrected: N Result (mg/Kg) Qualifier Mercury 0.20 0.048

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10715-1

Lab Section	Qualifier	Description	
Metals			
	F	MS or MSD exceeds the control limits	

Client: ERRG Job Number: 720-10715-1

QC Association Summary

	-	Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25900					
LCS 720-25900/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-25900/3-A	Lab Control Spike Duplicate	Т	Solid	3050B	
MB 720-25900/1-A	Method Blank	Т	Solid	3050B	
720-10657-A-9-A MS	Matrix Spike	Т	Solid	3050B	
720-10657-A-9-B MSD	Matrix Spike Duplicate	Т	Solid	3050B	
720-10715-5	PTLF 12WS 33A-D	Т	Solid	3050B	
720-10715-10	PTLF 12WS 34A-D	Т	Solid	3050B	
Analysis Batch:720-259	916				
LCS 720-25900/2-A	Lab Control Spike	Т	Solid	6010B	720-25900
LCSD 720-25900/3-A	Lab Control Spike Duplicate	Т	Solid	6010B	720-25900
MB 720-25900/1-A	Method Blank	Т	Solid	6010B	720-25900
720-10657-A-9-A MS	Matrix Spike	Т	Solid	6010B	720-25900
720-10657-A-9-B MSD	Matrix Spike Duplicate	Т	Solid	6010B	720-25900
720-10715-5	PTLF 12WS 33A-D	Т	Solid	6010B	720-25900
720-10715-10	PTLF 12WS 34A-D	Т	Solid	6010B	720-25900
Prep Batch: 720-25941					
LCS 720-25941/2-A	Lab Control Spike	Т	Solid	7471A	
LCSD 720-25941/3-A	Lab Control Spike Duplicate	Ť	Solid	7471A	
MB 720-25941/1-A	Method Blank	Ť	Solid	7471A	
720-10648-A-1-F MS	Matrix Spike	Ť	Solid	7471A	
720-10648-A-1-G MSD	Matrix Spike Duplicate	Ť	Solid	7471A	
720-10715-5	PTLF 12WS 33A-D	Ť	Solid	7471A	
720-10715-10	PTLF 12WS 34A-D	Ť	Solid	7471A	
Analysis Batch:720-259	248				
LCS 720-25941/2-A	Lab Control Spike	Т	Solid	7471A	720-25941
LCS 720-23941/2-A LCSD 720-25941/3-A	Lab Control Spike Duplicate	Ť	Solid	7471A 7471A	720-25941
MB 720-25941/1-A	Method Blank	T T	Solid	7471A 7471A	720-25941
720-10648-A-1-F MS	Matrix Spike	T T	Solid	7471A 7471A	720-25941
720-10046-A-1-F MSD	Matrix Spike Matrix Spike Duplicate	T T	Solid	7471A 7471A	720-25941 720-25941
720-10046-A-1-G WSD 720-10715-5	PTLF 12WS 33A-D	T T	Solid	7471A 7471A	720-25941 720-25941
720-10715-5 720-10715-10		Ť	Solid	7471A 7471A	
120-10/10-10	PTLF 12WS 34A-D	ı	JUIU	141 IA	720-25941

Report Basis T = Total

Client: ERRG Job Number: 720-10715-1

Method Blank - Batch: 720-25900 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-25900/1-A Analysis Batch: 720-25916 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25900 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/10/2007 2139 Final Weight/Volume: 50 mL
Date Prepared: 09/10/2007 1404

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Barium	ND		1.0
Cadmium	ND		0.50
Chromium	ND		1.0
Lead	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Zinc	ND		1.0

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25900 Preparation: 3050B

LCS Lab Sample ID: LCS 720-25900/2-A Analysis Batch: 720-25916 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25900 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/10/2007 2142 Final Weight/Volume: 50 mL

Date Analyzed: 09/10/2007 2142 Final Weight/Volume: 50 mL Date Prepared: 09/10/2007 1404

LCSD Lab Sample ID: LCSD 720-25900/3-A Analysis Batch: 720-25916 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25900 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/10/2007 2146 Final Weight/Volume: 50 mL
Date Prepared: 09/10/2007 1404

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	89	88	80 - 120	1	20		
Barium	82	81	80 - 120	1	20		
Cadmium	88	87	80 - 120	1	20		
Chromium	88	88	80 - 120	1	20		
Lead	88	87	80 - 120	1	20		
Selenium	91	90	80 - 120	1	20		
Silver	83	82	80 - 120	1	20		
Zinc	87	86	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10715-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-25900

Method: 6010B Preparation: 3050B

MS Lab Sample ID: 720-10657-A-9-A MS

Client Matrix: Solid

Dilution: 1.0
Date Analyzed: 09/1

Date Analyzed: 09/10/2007 2149 Date Prepared: 09/10/2007 1404 Analysis Batch: 720-25916 Instrument ID: Varian ICP

Prep Batch: 720-25900 Lab File ID: N/A

Initial Weight/Volume: 0.99 g Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10657-A-9-B MSD

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/10/2007 2153 Date Prepared: 09/10/2007 1404 Analysis Batch: 720-25916 Instrument ID: Varian ICP Prep Batch: 720-25900 Lab File ID: N/A

Initial Weight/Volume: 0.99 g Final Weight/Volume: 50 mL

	<u>% F</u>	<u>Rec.</u>					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	71	72	75 - 125	1	20	F	F
Barium	66	68	75 - 125	1	20	F	F
Cadmium	66	66	75 - 125	0	20	F	F
Chromium	72	73	75 - 125	1	20	F	F
Lead	67	67	75 - 125	1	20	F	F
Selenium	71	71	75 - 125	1	20	F	F
Silver	69	69	75 - 125	1	20	F	F
Zinc	64	64	75 - 125	0	20	F	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10715-1

Method Blank - Batch: 720-25941 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25941/1-A Analysis Batch: 720-25948 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25941 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/11/2007 0930 Final Weight/Volume: 50 mL
Date Prepared: 09/11/2007 0708

 Analyte
 Result
 Qual
 RL

 Mercury
 ND
 0.050

Lab Control Spike/ Method: 7471A
Lab Control Spike Duplicate Recovery Report - Batch: 720-25941 Preparation: 7471A

LCS Lab Sample ID: LCS 720-25941/2-A Analysis Batch: 720-25948 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25941 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/11/2007 0931 Final Weight/Volume: 50 mL

Date Prepared: 09/11/2007 0931

Date Prepared: 09/11/2007 0708

LCSD Lab Sample ID: LCSD 720-25941/3-A Analysis Batch: 720-25948 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25941 Lab File ID: N/A

90

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/11/2007 0932 Final Weight/Volume: 50 mL
Date Prepared: 09/11/2007 0708

92

Analyte LCS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual

85 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Mercury

Client: ERRG Job Number: 720-10715-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-25941 Preparation: 7471A

MS Lab Sample ID: 720-10648-A-1-F MS Analysis Batch: 720-25948 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25941 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 09/11/2007 0934 Final Weight/Volume: 50 mL
Date Prepared: 09/11/2007 0708

MSD Lab Sample ID: 720-10648-A-1-G MSD Analysis Batch: 720-25948 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25941 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g

Date Analyzed: 09/11/2007 0935 Final Weight/Volume: 50 mL Date Prepared: 09/11/2007 0708

% Rec. MS MSD Limit RPD MS Qual MSD Qual Analyte **RPD Limit** 85 - 115 F Mercury 124 121 3 20 F

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107091

Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A

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	Project Manager					oz glass jar					soil	!	STLC Pb	RCRA								12 hr/ 🐠	Number of C	Comments	For Lab Use	
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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10715-1

Login Number: 10715

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	SAMPLED < 4 HRS AGO
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10715-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
09/12/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10715-2

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General ChemistryNo analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10715-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10715-5 STLC Citrate	PTLF 12WS 33A-D					
Lead		20	0.50	mg/L	6010B	
<i>TCLP</i> Lead		0.80	0.50	mg/L	6010B	
720-10715-10	PTLF 12WS 34A-D					
STLC Citrate Lead		39	0.50	mg/L	6010B	
<i>TCLP</i> Lead		1.2	0.50	mg/L	6010B	

METHOD SUMMARY

Client: ERRG Job Number: 720-10715-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10715-2

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10715-5	PTLF 12WS 33A-D	Solid	09/10/2007 0845	09/10/2007 1020
720-10715-10	PTLF 12WS 34A-D	Solid	09/10/2007 0910	09/10/2007 1020

Analytical Data

Client: ERRG Job Number: 720-10715-2

Client Sample ID: PTLF 12WS 33A-D

 Lab Sample ID:
 720-10715-5
 Date Sampled:
 09/10/2007 0845

 Client Matrix:
 Solid
 Date Received:
 09/10/2007 1020

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-25966 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25949 Lab File ID: N/A Initial Weight/Volume: Dilution: 1.0 Leachate Batch: 720-25933 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/11/2007 1350

Date Prepared: 09/11/2007 1034

Date Leached: 09/10/2007 1738

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 0.80 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-26039Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26028Lab File ID:N/ADilution:1.0Leachate Batch: 720-25912Initial Weight/Volume:5 mL

Date Analyzed: 09/12/2007 1548

Date Prepared: 09/12/2007 1456

Date Leached: 09/10/2007 1518

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 20 0.50

Analytical Data

Client: ERRG Job Number: 720-10715-2

Client Sample ID: PTLF 12WS 34A-D

 Lab Sample ID:
 720-10715-10
 Date Sampled:
 09/10/2007 0910

 Client Matrix:
 Solid
 Date Received:
 09/10/2007 1020

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-25966 Method: Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-25949 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-25933 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/11/2007 1354
Date Prepared: 09/11/2007 1034
Date Leached: 09/10/2007 1738

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

<u>Lead</u> 1.2 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: Analysis Batch: 720-26039 Varian ICP 6010B Instrument ID: Preparation: 3005A Prep Batch: 720-26028 Lab File ID: N/A Initial Weight/Volume: Dilution: 1.0 Leachate Batch: 720-25912 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/12/2007 1552
Date Prepared: 09/12/2007 1456
Date Leached: 09/10/2007 1518

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 39 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10715-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25912					
MB 720-25912/1-B	Method Blank	С	Solid	CA WET Citrate	
720-10715-5	PTLF 12WS 33A-D	C	Solid	CA WET Citrate	
		C			
⁷ 20-10715-10	PTLF 12WS 34A-D	C	Solid	CA WET Citrate	
Prep Batch: 720-25933					
MB 720-25933/1-B	Method Blank	Р	Solid	1311	
720-10715-5	PTLF 12WS 33A-D	P	Solid	1311	
720-10715-10	PTLF 12WS 34A-D	P	Solid	1311	
Prep Batch: 720-25949	Lab Cantral Calle	-	14/5455	20404	
CS 720-25949/2-A	Lab Control Spike	T	Water	3010A	
CSD 720-25949/3-A	Lab Control Spike Duplicate	T	Water	3010A	700 05000
MB 720-25933/1-B	Method Blank	P	Solid	3010A	720-25933
⁷ 20-10715-5MS	Matrix Spike	Р	Solid	3010A	
⁷ 20-10715-5MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10715-5	PTLF 12WS 33A-D	Р	Solid	3010A	720-25933
'20-10715-10	PTLF 12WS 34A-D	Р	Solid	3010A	720-25933
Analysis Batch:720-2590	66				
MB 720-25933/1-B	Method Blank	Р	Solid	6010B	720-25949
_CS 720-25949/2-A	Lab Control Spike	Т	Water	6010B	720-25949
CSD 720-25949/3-A	Lab Control Spike Duplicate	Т	Water	6010B	720-25949
² 20-10715-5	PTLF 12WS 33A-D	Р	Solid	6010B	720-25949
720-10715-5MS	Matrix Spike	Р	Solid	6010B	720-25949
720-10715-5MSD	Matrix Spike Duplicate	P	Solid	6010B	720-25949
20-10715-10	PTLF 12WS 34A-D	P	Solid	6010B	720-25949
D D. (.)					
Prep Batch: 720-26028 LCS 720-26028/2-A	Lah Control Spiko	R	Water	3005A	
	Lab Control Spike		Water		
LCSD 720-26028/3-A	Lab Control Spike Duplicate	R		3005A	700 05040
MB 720-25912/1-B	Method Blank	С	Solid	3005A	720-25912
'20-10715-5MS	Matrix Spike	С	Solid	3005A	
720-10715-5MSD	Matrix Spike Duplicate	С	Solid	3005A	
² 20-10715-5	PTLF 12WS 33A-D	C	Solid	3005A	720-25912
' 20-10715-10	PTLF 12WS 34A-D	С	Solid	3005A	720-25912
Analysis Batch:720-260	39				
MB 720-25912/1-B	Method Blank	С	Solid	6010B	720-26028
CS 720-26028/2-A	Lab Control Spike	R	Water	6010B	720-26028
.CSD 720-26028/3-A	Lab Control Spike Duplicate	R	Water	6010B	720-26028
20-10715-5	PTLF 12WS 33A-D	C	Solid	6010B	720-26028
'20-10715-5MS	Matrix Spike	Č	Solid	6010B	720-26028
720-10715-5MSD	Matrix Spike Duplicate	C	Solid	6010B	720-26028
720-10715-10	PTLF 12WS 34A-D	Č	Solid	6010B	720-26028

Client: ERRG Job Number: 720-10715-2

QC Association Summary

Report

Lab Sample ID Client Sample ID Basis Client Matrix Method Prep Batch

Report Basis

C = STLC Citrate

P = TCLP

R = Total Recoverable

T = Total

Client: ERRG Job Number: 720-10715-2

Method Blank - Batch: 720-25949 Method: 6010B Preparation: 3010A

TCLP

Lab File ID:

Lab Sample ID: MB 720-25933/1-B Analysis Batch: 720-25966

Client Matrix: Solid Prep Batch: 720-25949

Dilution: 1.0 Units: mg/L

Date Analyzed: 09/11/2007 1259 Date Prepared: 09/11/2007 1034

Date Leached: 09/10/2007 1738 Leachate Batch: 720-25933

Analyte Result Qual RL

Lead ND 0.50

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-25949 Preparation: 3010A

LCS Lab Sample ID: LCS 720-25949/2-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 09/11/2007 1303

Date Analyzed: 09/11/2007 1303 Date Prepared: 09/11/2007 1034 Analysis Batch: 720-25966

Prep Batch: 720-25949

Units: mg/L

Instrument ID: Varian ICP

Instrument ID: Varian ICP

N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-25949/3-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 09/11/2007 1307 Date Prepared: 09/11/2007 1034 Analysis Batch: 720-25966

Prep Batch: 720-25949

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

<u>% Rec.</u>

Analyte LCS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual Lead 96 97 80 - 120 1 20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10715-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25949

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: Client Matrix:

720-10715-5

Solid

Dilution: 1.0

Date Analyzed: 09/11/2007 1314 Date Prepared: 09/11/2007 1034

Analysis Batch: 720-25966

Prep Batch: 720-25949

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10715-5

Client Matrix:

Solid

1.0 Dilution:

Date Analyzed: 09/11/2007 1346 Date Prepared: 09/11/2007 1034 Analysis Batch: 720-25966

Prep Batch: 720-25949

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	87	88	75 - 125	1	20	

Client: ERRG Job Number: 720-10715-2

Method Blank - Batch: 720-26028

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-25912/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/12/2007 1530 Date Prepared: 09/12/2007 1456

Date Leached: 09/10/2007 1518

Leachate Batch: 720-25912

Analysis Batch: 720-26039

Prep Batch: 720-26028

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

RL Analyte Result Qual Lead ND 0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-26028

Method: 6010B Preparation: 3005A **Total Recoverable**

LCS Lab Sample ID: LCS 720-26028/2-A

Client Matrix: Water

Dilution: 1.0 Date Analyzed:

09/12/2007 1533 09/12/2007 1456 Date Prepared:

Analysis Batch: 720-26039 Prep Batch: 720-26028

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-26028/3-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 09/12/2007 1537 Date Prepared: 09/12/2007 1456 Analysis Batch: 720-26039

Prep Batch: 720-26028

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Lead 98 98 80 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10715-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-26028

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID: Client Matrix:

Date Prepared:

720-10715-5 Solid

Analysis Batch: 720-26039

Instrument ID: Varian ICP

Dilution: 1.0 Prep Batch: 720-26028

Lab File ID: N/A

Date Analyzed:

09/12/2007 1541 09/12/2007 1456 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10715-5

Client Matrix:

Solid

1.0

Dilution:

Date Analyzed: 09/12/2007 1544 Date Prepared: 09/12/2007 1456 Analysis Batch: 720-26039 Instrument ID: Varian ICP

Prep Batch: 720-26028 Lab File ID: N/A

> Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	92	94	80 - 120	0	20	

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10715-2

Login Number: 10715

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	SAMPLED < 4 HRS AGO
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10733-1 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com

09/11/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10733-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 25942 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 25941 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10733-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10733-5	PTLF 12WS35A-D					
Barium Chromium Lead Zinc Mercury		210 160 260 340 0.13	0.97 0.97 0.97 0.97 0.050	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10733-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor	TAL SF	SW846 7471A	
Technique) Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10733-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10733-5	PTLF 12WS35A-D	Solid	09/11/2007 0530	09/11/2007 0715

Analytical Data

Client: ERRG Job Number: 720-10733-1

Client Sample ID: PTLF 12WS35A-D

 Lab Sample ID:
 720-10733-5
 Date Sampled:
 09/11/2007 0530

 Client Matrix:
 Solid
 Date Received:
 09/11/2007 0715

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-25966 Instrument ID: Varian ICP

Preparation: 3050B Prep Batch: 720-25942 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.03 g

Date Analyzed: 09/11/2007 1508 Final Weight/Volume: 50 mL

Date Analyzed: 09/11/2007 1508 Date Prepared: 09/11/2007 0815

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.97
Barium		210		0.97
Cadmium		ND		0.49
Chromium		160		0.97
Lead		260		0.97
Selenium		ND		1.9
Silver		ND		0.97
Zinc		340		0.97

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-25948 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-25941 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g

Date Analyzed: 09/11/2007 0956 Final Weight/Volume: 50 mL Date Prepared: 09/11/2007 0708

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.13 0.050

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10733-1

Lab Section	Qualifier	Description
Metals		
	F	MS or MSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits

Client: ERRG Job Number: 720-10733-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					.,
Prep Batch: 720-25941					
LCS 720-25941/2-A	Lab Control Spike	Т	Solid	7471A	
LCSD 720-25941/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	
MB 720-25941/1-A	Method Blank	Т	Solid	7471A	
720-10648-A-1-F MS	Matrix Spike	Т	Solid	7471A	
720-10648-A-1-G MSD	Matrix Spike Duplicate	Т	Solid	7471A	
720-10733-5	PTLF 12WS35A-D	T	Solid	7471A	
Prep Batch: 720-25942					
LCS 720-25942/2-A	Lab Control Spike	Т	Solid	3050B	
LCSD 720-25942/3-A	Lab Control Spike Duplicate	Т	Solid	3050B	
MB 720-25942/1-A	Method Blank	Т	Solid	3050B	
720-10660-A-1-A MS	Matrix Spike	Т	Solid	3050B	
720-10660-A-1-B MSD	Matrix Spike Duplicate	Т	Solid	3050B	
720-10733-5	PTLF 12WS35A-D	Т	Solid	3050B	
Analysis Batch:720-259	948				
LCS 720-25941/2-A	Lab Control Spike	Т	Solid	7471A	720-25941
LCSD 720-25941/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	720-25941
MB 720-25941/1-A	Method Blank	Т	Solid	7471A	720-25941
720-10648-A-1-F MS	Matrix Spike	Т	Solid	7471A	720-25941
720-10648-A-1-G MSD	Matrix Spike Duplicate	Т	Solid	7471A	720-25941
720-10733-5	PTLF 12WS35A-D	Т	Solid	7471A	720-25941
Analysis Batch:720-259	966				
LCS 720-25942/2-A	Lab Control Spike	Т	Solid	6010B	720-25942
LCSD 720-25942/3-A	Lab Control Spike Duplicate	Т	Solid	6010B	720-25942
MB 720-25942/1-A	Method Blank	Т	Solid	6010B	720-25942
720-10660-A-1-A MS	Matrix Spike	Ť	Solid	6010B	720-25942
720-10660-A-1-B MSD	Matrix Spike Duplicate	Т	Solid	6010B	720-25942
720-10733-5	PTLF 12WS35A-D	Ť	Solid	6010B	720-25942
		-			

Report Basis T = Total

Client: ERRG Job Number: 720-10733-1

Method Blank - Batch: 720-25942 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-25942/1-A Analysis Batch: 720-25966 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25942 Lab File ID: N/A

Units: mg/Kg Dilution: 1.0 Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

Date Analyzed: 09/11/2007 1433 Date Prepared: 09/11/2007 0815

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Barium	ND		1.0
Cadmium	ND		0.50
Chromium	ND		1.0
Lead	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Zinc	ND		1.0

Method: 6010B Lab Control Spike/ Lab Control Spike Duplicate Recovery Report - Batch: 720-25942 Preparation: 3050B

Instrument ID: Varian ICP LCS Lab Sample ID: LCS 720-25942/2-A Analysis Batch: 720-25966

Client Matrix: Solid Prep Batch: 720-25942 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: g

Date Analyzed: 09/11/2007 1436 Final Weight/Volume: 50 mL Date Prepared: 09/11/2007 0815

LCSD Lab Sample ID: LCSD 720-25942/3-A Analysis Batch: 720-25966 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-25942 Lab File ID:

Dilution: Units: mg/Kg Initial Weight/Volume: 1 g 1.0 Date Analyzed: 09/11/2007 1440 Final Weight/Volume: 50 mL Date Prepared: 09/11/2007 0815

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit Arsenic 92 95 80 - 120 3 20 80 - 120 Barium 85 88 3 20 90 80 - 120 3 Cadmium 93 20 Chromium 92 94 80 - 120 3 20 Lead 89 92 80 - 120 3 20 Selenium 98 102 80 - 120 3 20 Silver 87 89 80 - 120 3 20 Zinc 89 92 80 - 120 3 20

Client: ERRG Job Number: 720-10733-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-25942

Method: 6010B Preparation: 3050B

MS Lab Sample ID: 720-10660-A-1-A MS

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/11/2007 1443 Date Prepared: 09/11/2007 0815 Analysis Batch: 720-25966 Instrument ID: Varian ICP Prep Batch: 720-25942 Lab File ID: N/A

Initial Weight/Volume: 1.01 g Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10660-A-1-B MSD

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/11/2007 1447 Date Prepared: 09/11/2007 0815 Analysis Batch: 720-25966 Instrument ID: Varian ICP Prep Batch: 720-25942 Lab File ID: N/A

Initial Weight/Volume: 1.05 g

Final Weight/Volume: 50 mL

	<u>% F</u>	<u>Rec.</u>					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	69	69	75 - 125	4	20	F	F
Barium	75	71	75 - 125	4	20		F
Cadmium	64	63	75 - 125	5	20	F	F
Chromium	69	68	75 - 125	5	20	F	F
Lead	83	58	75 - 125	27	20		F
Selenium	71	71	75 - 125	4	20	F	F
Silver	68	68	75 - 125	5	20	F	F
Zinc	66	63	75 - 125	6	20	F	F

Client: ERRG Job Number: 720-10733-1

Method Blank - Batch: 720-25941 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-25941/1-A Analysis Batch: 720-25948 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25941 Lab File ID: N/A

Units: mg/Kg Dilution: 1.0 Initial Weight/Volume: 1 g Date Analyzed: 09/11/2007 0930 Final Weight/Volume: 50 mL Date Prepared: 09/11/2007 0708

Qual RL Analyte Result Mercury ND 0.050

Lab Control Spike/ Method: 7471A

Lab Control Spike Duplicate Recovery Report - Batch: 720-25941 Preparation: 7471A

LCS Lab Sample ID: LCS 720-25941/2-A Instrument ID: FIMS 100 Analysis Batch: 720-25948

Client Matrix: Solid Prep Batch: 720-25941 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Final Weight/Volume: Date Analyzed: 09/11/2007 0931 50 mL Date Prepared: 09/11/2007 0708

LCSD Lab Sample ID: LCSD 720-25941/3-A Analysis Batch: 720-25948 Instrument ID: **FIMS 100**

Client Matrix: Solid Prep Batch: 720-25941 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g 09/11/2007 0932 Date Analyzed: Final Weight/Volume: 50 mL

09/11/2007 0708 Date Prepared:

% Rec. Analyte LCS LCSD Limit **RPD** RPD Limit LCS Qual LCSD Qual Mercury 90 92 85 - 115

Client: ERRG Job Number: 720-10733-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-25941 Preparation: 7471A

MS Lab Sample ID: 720-10648-A-1-F MS Analysis Batch: 720-25948 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25941 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 09/11/2007 0934 Final Weight/Volume: 50 mL
Date Prepared: 09/11/2007 0708

MSD Lab Sample ID: 720-10648-A-1-G MSD Analysis Batch: 720-25948 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-25941 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g

Date Analyzed: 09/11/2007 0935 Final Weight/Volume: 50 mL Date Prepared: 09/11/2007 0708

% Rec. MS MSD Limit RPD MS Qual MSD Qual Analyte **RPD Limit** 85 - 115 F Mercury 124 121 3 20 F

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ERRG

Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A Concord, CA 94520

Phone: (925) 969-0750 Fax: (925) 969-0751 720-10733

Page 1 of 1

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10733-1

Login Number: 10733

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	SAMPLED < 4 HRS AGO
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10733-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/13/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10733-2

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General ChemistryNo analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10733-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method		
720-10733-5	PTLF 12WS35A-D						
STLC Citrate Lead		26	0.50	mg/L	6010B		
<i>TCLP</i> Lead		0.90	0.50	mg/L	6010B		

METHOD SUMMARY

Client: ERRG Job Number: 720-10733-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10733-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10733-5	PTLF 12WS35A-D	Solid	09/11/2007 0530	09/11/2007 0715

Analytical Data

50 mL

Client: ERRG Job Number: 720-10733-2

Client Sample ID: PTLF 12WS35A-D

 Lab Sample ID:
 720-10733-5
 Date Sampled:
 09/11/2007 0530

 Client Matrix:
 Solid
 Date Received:
 09/11/2007 0715

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:6010BAnalysis Batch: 720-26039Instrument ID:Varian ICPPreparation:3010APrep Batch: 720-25998Lab File ID:N/ADilution:1.0Leachate Batch: 720-25986Initial Weight/Volume:5 mL

 Dilution:
 1.0
 Leachate Batch: 720-25986
 Initial Weight/Volume:

 Date Analyzed:
 09/12/2007 1404
 Final Weight/Volume:

 Date Prepared:
 09/12/2007 0919

 Date Leached:
 09/11/2007 1551

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 0.90 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:6010BAnalysis Batch: 720-26058Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26051Lab File ID:N/ADilution:1.0Leachate Batch: 720-25943Initial Weight/Volume:5 mL

 Dilution:
 1.0
 Leachate Batch: 720-25943
 Initial Weight/Volume:
 5 mL

 Date Analyzed:
 09/13/2007 1007
 Final Weight/Volume:
 50 mL

 Date Prepared:
 09/13/2007 0907

 Date Leached:
 09/11/2007 901

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 26 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10733-2

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-25943					
LCS 720-25943/2-B	Lab Control Spike	С	Solid	CA WET Citrate	
LCSD 720-25943/3-B	Lab Control Spike Duplicate	С	Solid	CA WET Citrate	
MB 720-25943/1-B	Method Blank	С	Solid	CA WET Citrate	
720-10733-5	PTLF 12WS35A-D	С	Solid	CA WET Citrate	
720-10733-5MS	Matrix Spike	C	Solid	CA WET Citrate	
720-10733-5MSD	Matrix Spike Duplicate	C	Solid	CA WET Citrate	
Prep Batch: 720-25986					
MB 720-25986/1-B	Method Blank	Р	Solid	1311	
720-10733-5	PTLF 12WS35A-D	P	Solid	1311	
Prep Batch: 720-25998	Lab Cantral Cailea	-	\A/=4=	20404	
LCS 720-25998/2-A	Lab Control Spike	T	Water	3010A	
LCSD 720-25998/3-A	Lab Control Spike Duplicate	T	Water	3010A	700 05000
MB 720-25986/1-B	Method Blank	P	Solid	3010A	720-25986
720-10733-5MS	Matrix Spike	P	Solid	3010A	
720-10733-5MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10733-5	PTLF 12WS35A-D	Р	Solid	3010A	720-25986
Analysis Batch:720-26039)				
MB 720-25986/1-B	Method Blank	Р	Solid	6010B	720-25998
LCS 720-25998/2-A	Lab Control Spike	Т	Water	6010B	720-25998
LCSD 720-25998/3-A	Lab Control Spike Duplicate	Т	Water	6010B	720-25998
720-10733-5	PTLF 12WS35A-D	Р	Solid	6010B	720-25998
720-10733-5MS	Matrix Spike	P	Solid	6010B	720-25998
720-10733-5MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-25998
Drop Botoh: 720 26064					
Prep Batch: 720-26051 LCS 720-25943/2-B	Lab Control Spike	С	Solid	3005A	720-25943
LCSD 720-25943/3-B	Lab Control Spike Duplicate	C	Solid	3005A	720-25943
	Method Blank		Solid		
MB 720-25943/1-B		C		3005A	720-25943
720-10733-5	PTLF 12WS35A-D	С	Solid	3005A	720-25943
720-10733-5MS	Matrix Spike	С	Solid	3005A	720-25943
720-10733-5MSD	Matrix Spike Duplicate	С	Solid	3005A	720-25943
Analysis Batch:720-26058					
LCS 720-25943/2-B	Lab Control Spike	С	Solid	6010B	720-26051
LCSD 720-25943/3-B	Lab Control Spike Duplicate	С	Solid	6010B	720-26051
MB 720-25943/1-B	Method Blank	С	Solid	6010B	720-26051
720-10733-5	PTLF 12WS35A-D	Ċ	Solid	6010B	720-26051
720-10733-5MS	Matrix Spike	Č	Solid	6010B	720-26051
720-10733-5MSD	Matrix Spike Duplicate	Č	Solid	6010B	720-26051
. 20 10/00 0IVIOD	Matrix Opino Dupiloato	5	Colid	30100	. 20 20001

Client: ERRG Job Number: 720-10733-2

QC Association Summary

Report

Lab Sample ID Client Sample ID Basis Client Matrix Method Prep Batch

Report Basis

C = STLC Citrate

P = TCLP

T = Total

Client: ERRG Job Number: 720-10733-2

Method Blank - Batch: 720-25998 Method: 6010B Preparation: 3010A

TCLP

Lab File ID:

Lab Sample ID: MB 720-25986/1-B

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/12/2007 1336 Date Prepared: 09/12/2007 0919

Date Leached: 09/11/2007 1551

Analysis Batch: 720-26039 Prep Batch: 720-25998

Units: mg/L

Leachate Batch: 720-25986

RL Analyte Result Qual

Lead ND 0.50

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-25998 Preparation: 3010A

LCS Lab Sample ID: LCS 720-25998/2-A

Client Matrix: Water Dilution: 1.0

09/12/2007 1339 Date Analyzed:

Date Prepared: 09/12/2007 0919

LCSD Lab Sample ID: LCSD 720-25998/3-A

Client Matrix: Water Dilution: 1.0

Date Analyzed: 09/12/2007 1343 Date Prepared: 09/12/2007 0919 Analysis Batch: 720-26039

Prep Batch: 720-25998

Units: mg/L

Instrument ID: Varian ICP

Instrument ID: Varian ICP

N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analysis Batch: 720-26039 Instrument ID: Varian ICP

Prep Batch: 720-25998 Lab File ID: N/A

Units: mg/L Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Lead 98 100 80 - 120

Client: ERRG Job Number: 720-10733-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-25998

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: Client Matrix:

720-10733-5 Solid

1.0

Dilution: Date Analyzed:

09/12/2007 1347 Date Prepared: 09/12/2007 0919

Analysis Batch: 720-26039

Prep Batch: 720-25998

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10733-5

Client Matrix:

Solid 1.0

Dilution: Date Analyzed:

09/12/2007 1400 Date Prepared: 09/12/2007 0919 Analysis Batch: 720-26039 Instrument ID: Varian ICP Prep Batch: 720-25998 Lab File ID: N/A

> Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	97	98	75 - 125	1	20	

Client: ERRG Job Number: 720-10733-2

Method Blank - Batch: 720-26051

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Lab File ID:

Lab Sample ID: MB 720-25943/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/13/2007 0949 Date Prepared: 09/13/2007 0907

Date Leached: 09/11/2007 0901

Analysis Batch: 720-26058 Prep Batch: 720-26051

Units: mg/L

Leachate Batch: 720-25943

Analysis Batch: 720-26058

Leachate Batch: 720-25943

Analysis Batch: 720-26058

Prep Batch: 720-26051

Prep Batch: 720-26051

Units: mg/L

Units: mg/L

RL Analyte Result Qual

Lead ND 0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-26051

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

5 mL

Varian ICP

N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

50 mL

Lab File ID: N/A

Instrument ID:

Lab File ID:

Initial Weight/Volume:

Final Weight/Volume:

LCS Lab Sample ID: LCS 720-25943/2-B

Client Matrix: Solid 1.0

Dilution:

09/13/2007 0953 Date Analyzed: Date Prepared: 09/13/2007 0907

Date Leached: 09/11/2007 0901

LCSD Lab Sample ID: LCSD 720-25943/3-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: Date Prepared:

Date Leached:

09/13/2007 0957 09/13/2007 0907

09/11/2007 0901 Leachate Batch: 720-25943

% Rec. Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual

Lead 95 94 80 - 120

Client: ERRG Job Number: 720-10733-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-26051 Preparation: 3005A

STLC Citrate

Method: 6010B

MS Lab Sample ID: 720-10733-5 Analysis Batch: 720-26058 Instrument ID: Varian ICP Prep Batch: 720-26051 Client Matrix: Solid Lab File ID: N/A

Dilution:

Initial Weight/Volume: 5 mL 1.0 Date Analyzed: Final Weight/Volume: 50 mL 09/13/2007 1000

Date Prepared: 09/13/2007 0907 Date Leached: 09/11/2007 0901 Leachate Batch: 720-25943

MSD Lab Sample ID: 720-10733-5 Analysis Batch: 720-26058 Instrument ID: Varian ICP

Prep Batch: 720-26051 Client Matrix: Solid Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 5 mL Date Analyzed: 09/13/2007 1004 Final Weight/Volume: 50 mL

Date Prepared: 09/13/2007 0907 Date Leached: 09/11/2007 0901 Leachate Batch: 720-25943

% Rec.

MS MSD RPD MS Qual MSD Qual Analyte Limit **RPD Limit** 80 - 120 Lead 96 84 3 20

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ERRG

Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A Concord, CA 94520

Phone: (925) 969-0750 Fax: (925) 969-0751

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Page 1 of 1

Fax: (925) 969	9-0/51		•				<i>F</i> ,															
Project Contact (Hardcopy or PDI	California EDF Report? Yes No						Chain-of-Custody Record and Analysis Reques					st										
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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10733-2

Login Number: 10733

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	SAMPLED < 4 HRS AGO
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10753-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Sharma

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/13/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10753-1

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10753-1

Lab Sample ID	Client Sample ID		Reporting			
Analyte		Result / Qualifier	Limit	Units	Method	
720-10753-5	PTLF 12WS 36					
Arsenic		1.1	0.99	mg/Kg	6010B	
Barium		280	0.99	mg/Kg	6010B	
Chromium		200	0.99	mg/Kg	6010B	
Lead		630	0.99	mg/Kg	6010B	
Zinc		1600	0.99	mg/Kg	6010B	
Mercury		0.23	0.051	mg/Kg	7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10753-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10753-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10753-5	PTLF 12WS 36	Solid	09/12/2007 0700	09/12/2007 0920

Analytical Data

Client: ERRG Job Number: 720-10753-1

Client Sample ID: PTLF 12WS 36

 Lab Sample ID:
 720-10753-5
 Date Sampled:
 09/12/2007 0700

 Client Matrix:
 Solid
 Date Received:
 09/12/2007 0920

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26047 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-26004 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g
Date Analyzed: 09/12/2007 2153 Final Weight/Volume: 50 mL

Date Prepared: 09/12/2007 1111

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		1.1		0.99
Barium		280		0.99
Cadmium		ND		0.50
Chromium		200		0.99
Lead		630		0.99
Selenium		ND		2.0
Silver		ND		0.99
Zinc		1600		0.99

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26059 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26048 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g

Date Analyzed: 09/13/2007 1017 Final Weight/Volume: 50 mL Date Prepared: 09/13/2007 0740

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.23 0.051

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10753-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-26004					
LCS 720-26004/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-26004/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
MB 720-26004/1-A	Method Blank	T	Solid	3050B	
720-10753-5	PTLF 12WS 36	T	Solid	3050B	
Analysis Batch:720-2604	4 7				
LCS 720-26004/2-A	Lab Control Spike	Т	Solid	6010B	720-26004
LCSD 720-26004/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-26004
MB 720-26004/1-A	Method Blank	T	Solid	6010B	720-26004
720-10753-5	PTLF 12WS 36	Т	Solid	6010B	720-26004
Prep Batch: 720-26048					
LCS 720-26048/2-A	Lab Control Spike	T	Solid	7471A	
LCSD 720-26048/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	
MB 720-26048/1-A	Method Blank	Т	Solid	7471A	
720-10746-A-1-E MS	Matrix Spike	Т	Solid	7471A	
720-10746-A-1-F MSD	Matrix Spike Duplicate	T	Solid	7471A	
720-10753-5	PTLF 12WS 36	Т	Solid	7471A	
Analysis Batch:720-2605	59				
LCS 720-26048/2-A	Lab Control Spike	T	Solid	7471A	720-26048
LCSD 720-26048/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	720-26048
MB 720-26048/1-A	Method Blank	T	Solid	7471A	720-26048
720-10746-A-1-E MS	Matrix Spike	T	Solid	7471A	720-26048
720-10746-A-1-F MSD	Matrix Spike Duplicate	T	Solid	7471A	720-26048
720-10753-5	PTLF 12WS 36	Т	Solid	7471A	720-26048

Report Basis

T = Total

1.0

1.0

Client: ERRG Job Number: 720-10753-1

Method Blank - Batch: 720-26004 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-26004/1-A Analysis Batch: 720-26047 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26004 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/12/2007 2125 Final Weight/Volume: 50 mL

Qual RL Analyte Result Arsenic ND 1.0 Barium ND 1.0 Cadmium ND 0.50 Chromium ND 1.0 Lead ND 1.0 Selenium ND 2.0

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-26004 Preparation: 3050B

ND

ND

LCS Lab Sample ID: LCS 720-26004/2-A Analysis Batch: 720-26047 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26004 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/12/2007 2128 Final Weight/Volume: 50 mL Date Prepared: 09/12/2007 1111

LCSD Lab Sample ID: LCSD 720-26004/3-A Analysis Batch: 720-26047 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26004 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/12/2007 2131 Final Weight/Volume: 50 mL
Date Prepared: 09/12/2007 1111

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit Arsenic 95 94 80 - 120 0 20 80 - 120 20 Barium 87 86 1 80 - 120 Cadmium 94 93 0 20 Chromium 94 93 80 - 120 20 0 Lead 93 93 80 - 120 0 20 Selenium 99 99 80 - 120 1 20 Silver 88 88 80 - 120 1 20 Zinc 94 93 80 - 120 1 20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Date Prepared: 09/12/2007 1111

Silver

Zinc

Client: ERRG Job Number: 720-10753-1

Method Blank - Batch: 720-26048 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-26048/1-A Analysis Batch: 720-26059 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26048 Lab File ID: N/A Units: mg/Kg Dilution: 1.0 Initial Weight/Volume: 1 g

Date Analyzed: 09/13/2007 1010 Final Weight/Volume: 50 mL Date Prepared: 09/13/2007 0740

Result Qual RL Analyte Mercury ND 0.050

Lab Control Spike/ Method: 7471A

Lab Control Spike Duplicate Recovery Report - Batch: 720-26048 Preparation: 7471A

LCS Lab Sample ID: LCS 720-26048/2-A Instrument ID: FIMS 100 Analysis Batch: 720-26059

Client Matrix: Solid Prep Batch: 720-26048 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

09/13/2007 1011 Final Weight/Volume: Date Analyzed: 50 mL Date Prepared: 09/13/2007 0740

LCSD Lab Sample ID: LCSD 720-26048/3-A Analysis Batch: 720-26059 Instrument ID: **FIMS 100**

Client Matrix: Solid Prep Batch: 720-26048 Lab File ID: N/A Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

09/13/2007 1012 Date Analyzed: Final Weight/Volume: 50 mL Date Prepared: 09/13/2007 0740

% Rec. Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Mercury 101 101 85 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10753-1

Matrix Spike/ Method: 7471A Matrix Spike Duplicate Recovery Report - Batch: 720-26048 Preparation: 7471A

09/13/2007 0740

MS Lab Sample ID: 720-10746-A-1-E MS Analysis Batch: 720-26059 Instrument ID: FIMS 100

Prep Batch: 720-26048 Client Matrix: Solid Lab File ID: N/A

Initial Weight/Volume: 1.05 g Dilution: 1.0 Date Analyzed: Final Weight/Volume: 50 mL 09/13/2007 1013

MSD Lab Sample ID: 720-10746-A-1-F MSD Analysis Batch: 720-26059 Instrument ID: FIMS 100

Prep Batch: 720-26048 Client Matrix: Solid Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g

Date Analyzed: 09/13/2007 1015 Final Weight/Volume: 50 mL Date Prepared: 09/13/2007 0740

% Rec. MSD Limit RPD MS Qual MSD Qual Analyte MS **RPD Limit** 85 - 115 Mercury 102 95 3 20

Date Prepared:

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ER	RG

Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A Concord, CA 94520 Phone: (925) 969-0750

720-16753 Lab No.

Page 1 of 1

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10753-1

Login Number: 10753

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10753-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

milissa Brewer

Designee for
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
09/17/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10753-2

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 6010B: Due to the high concentration of target analytes, the matrix spike / matrix spike duplicate (MS/MSD) for batch 26134 could not be evaluated. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

General ChemistryNo analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10753-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10753-5	PTLF 12WS 36					
<i>STLC Citrate</i> Lead		46	0.50	mg/L	6010B	
TCLP Lead		2.8	0.50	mg/L	6010B	

METHOD SUMMARY

Client: ERRG Job Number: 720-10753-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10753-2

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10753-5	PTLF 12WS 36	Solid	09/12/2007 0700	09/12/2007 0920

Analytical Data

Client: ERRG Job Number: 720-10753-2

Client Sample ID: PTLF 12WS 36

 Lab Sample ID:
 720-10753-5
 Date Sampled:
 09/12/2007 0700

 Client Matrix:
 Solid
 Date Received:
 09/12/2007 0920

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:6010BAnalysis Batch: 720-26210Instrument ID:Varian ICPPreparation:3010APrep Batch: 720-26182Lab File ID:N/A

Dilution: 1.0 Leachate Batch: 720-26009 Initial Weight/Volume: 5 mL

Date Analyzed: 09/17/2007 1325 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 0844 Date Leached: 09/12/2007 1204

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 2.8
 0.50

Lead 2.8 0.5

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: 6010B Analysis Batch: 720-26129 Instrument ID: Varian ICP

Preparation: 3005A Prep Batch: 720-26134 Lab File ID: N/A
Dilution: 1.0 Leachate Batch: 720-26030 Initial Weight/Volume: 5 mL

Dilution: 1.0 Leachate Batch: 720-26030 Initial Weight/Volume: 5 mL

Date Analyzed: 09/14/2007 1823 Final Weight/Volume: 50 mL

Date Prepared: 09/14/2007 1306

Date Leached: 09/12/2007 1445

Date Leached: 09/12/2007 1445

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 46 0.50

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10753-2

Lab Section	Qualifier	Description
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ERRG Job Number: 720-10753-2

QC Association Summary

	•	Report			
Lab Sample ID (Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-26009					
LCS 720-26009/2-B	Lab Control Spike	Р	Solid	1311	
LCSD 720-26009/3-B	Lab Control Spike Duplicate	Р	Solid	1311	
MB 720-26009/1-B	Method Blank	Р	Solid	1311	
720-10753-5	PTLF 12WS 36	Р	Solid	1311	
Prep Batch: 720-26030					
LCS 720-26030/2-B	Lab Control Spike	С	Solid	CA WET Citrate	
LCSD 720-26030/3-B	Lab Control Spike Duplicate	Ċ	Solid	CA WET Citrate	
MB 720-26030/1-B	Method Blank	C	Solid	CA WET Citrate	
720-10753-5	PTLF 12WS 36	C	Solid	CA WET Citrate	
Amelyaia Bataby700 00400					
Analysis Batch:720-26129 LCS 720-26030/2-B	Lab Control Spike	С	Solid	6010B	720-26134
LCS 720-26030/2-B LCSD 720-26030/3-B	Lab Control Spike Duplicate	C	Solid	6010B	720-26134
MB 720-26030/1-B	Method Blank	C	Solid	6010B	720-26134 720-26134
720-10753-5	PTLF 12WS 36	C	Solid	6010B	720-26134
720-10753-5 720-10753-5MS	Matrix Spike	C	Solid	6010B	720-26134 720-26134
	Matrix Spike Duplicate	C	Solid	6010B	720-26134 720-26134
720-10753-5MSD	Matrix Spike Duplicate	C	Soliu	00106	720-20134
Prep Batch: 720-26134					
LCS 720-26030/2-B	Lab Control Spike	С	Solid	3005A	720-26030
LCSD 720-26030/3-B	Lab Control Spike Duplicate	С	Solid	3005A	720-26030
MB 720-26030/1-B	Method Blank	С	Solid	3005A	720-26030
720-10753-5MS	Matrix Spike	С	Solid	3005A	
720-10753-5MSD	Matrix Spike Duplicate	С	Solid	3005A	
720-10753-5	PTLF 12WS 36	С	Solid	3005A	720-26030
Prep Batch: 720-26182					
LCS 720-26009/2-B	Lab Control Spike	Р	Solid	3010A	720-26009
LCSD 720-26009/3-B	Lab Control Spike Duplicate	Р	Solid	3010A	720-26009
MB 720-26009/1-B	Method Blank	Р	Solid	3010A	720-26009
720-10753-5	PTLF 12WS 36	Р	Solid	3010A	720-26009
Analysis Batch:720-26210					
LCS 720-26009/2-B	Lab Control Spike	Р	Solid	6010B	720-26182
LCSD 720-26009/3-B	Lab Control Spike Duplicate	r P	Solid	6010B	720-26182
MB 720-26009/1-B	Method Blank	P	Solid	6010B	720-26182
720-10753-5	PTLF 12WS 36	P	Solid	6010B	720-26182
120 10100 0	1 121 12110 00	•	Colla	00100	, 20 20 102

Report Basis

C = STLC Citrate

P = TCLP

Client: ERRG Job Number: 720-10753-2

Method Blank - Batch: 720-26134 Method: 6010B Preparation: 3005A

STLC Citrate

Lab Sample ID: MB 720-26030/1-B Analysis Batch: 720-26129

> Prep Batch: 720-26134 Units: mg/L 1.0

Date Analyzed: 09/14/2007 1812

Solid

Date Prepared: 09/14/2007 1306

Date Leached: 09/12/2007 1445 Leachate Batch: 720-26030 Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

RL Analyte Result Qual Lead ND 0.50

Lab Control Spike/

Client Matrix:

Dilution:

Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-26134 Preparation: 3005A

STLC Citrate

LCS Lab Sample ID: LCS 720-26030/2-B Analysis Batch: 720-26129 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26134 Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 ml

Date Analyzed: 09/14/2007 1815 Final Weight/Volume: 50 mL 09/14/2007 1306 Date Prepared:

Date Leached: 09/12/2007 1445 Leachate Batch: 720-26030

LCSD Lab Sample ID: LCSD 720-26030/3-B Analysis Batch: 720-26129 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26134 Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL

09/14/2007 1819 Final Weight/Volume: 50 mL Date Analyzed: Date Prepared: 09/14/2007 1306

Date Leached: 09/12/2007 1445 Leachate Batch: 720-26030

% Rec. Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual

Lead 95 101 80 - 120

Client: ERRG Job Number: 720-10753-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-26134

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID: Client Matrix:

720-10753-5 Solid

Analysis Batch: 720-26129 Prep Batch: 720-26134

Instrument ID: Varian ICP

Lab File ID:

N/A

Dilution: Date Analyzed: 1.0

09/14/2007 1826

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Prepared: 09/14/2007 1306

MSD Lab Sample ID: 720-10753-5

Solid

Analysis Batch: 720-26129

Instrument ID: Varian ICP Lab File ID: N/A

Client Matrix: Dilution:

Prep Batch: 720-26134

Date Analyzed: Date Prepared: 1.0

09/14/2007 1830 09/14/2007 1306 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	-22	-111	80 - 120	23	20	4	4

Client: ERRG Job Number: 720-10753-2

Method Blank - Batch: 720-26182 Method: 6010B Preparation: 3010A

TCLP

Lab File ID:

Instrument ID: Varian ICP

Instrument ID: Varian ICP

5 ml

Varian ICP

N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

50 mL

Lab File ID: N/A

Instrument ID:

Lab File ID:

Initial Weight/Volume:

Final Weight/Volume:

N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Lab Sample ID: MB 720-26009/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/17/2007 1314

Date Prepared: 09/17/2007 0844

Date Leached: 09/12/2007 1204

Analysis Batch: 720-26210 Prep Batch: 720-26182

Units: mg/L

Leachate Batch: 720-26009

RL Analyte Result Qual

Lead ND 0.50

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-26182 Preparation: 3010A **TCLP**

Units: mg/L

LCS Lab Sample ID: LCS 720-26009/2-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/17/2007 1318 Date Prepared: 09/17/2007 0844

Date Leached: 09/12/2007 1204

LCSD Lab Sample ID: LCSD 720-26009/3-B

Client Matrix: Solid

Dilution: 1.0

09/17/2007 1321 Date Analyzed: Date Prepared: 09/17/2007 0844

Date Leached: 09/12/2007 1204 Analysis Batch: 720-26210 Prep Batch: 720-26182

Leachate Batch: 720-26009

Analysis Batch: 720-26210

Prep Batch: 720-26182

Units: mg/L

Leachate Batch: 720-26009

% Rec.

Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Lead 91 92 80 - 120

ER	RG

Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A Concord, CA 94520

|--|

Page 1 of 1

Phone: (925) 969-0750 07133 Fax: (925) 969-0751 **Chain-of-Custody Record and Analysis Request** Project Contact (Hardcopy or PDF To): TAT Electronic Deliverables To (Email Address): **Analysis Request** Laboratory / Address: boose. Thetere erry com Phone No.: Fax No.: Sampler : ٣ 2 hr/ 24 hr 48 hr/ 72 hr/STD Project Number: Phase # / Task # Compos. 27128 Project Address: Project Name: **Number of Containers** Zinc Pres do BB 122 TCLPPB For Lab Use Only Project Manager: Sampling Container **Matrix** Tyson Appal 30 glass jar Comments 4 P_b Q. Sample STLC OZ soil **Designation** Date Time PTLF12WS36 9/12/07 7:00A RUSH Relinguished by: Time Received by: Remarks: 9.20 Relinguished by: Time Received by: Engineering / Remediation Resources Group, Inc. Relinquished by: 185 Mason Circle, Suite A Concord, CA 94520

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10753-2

Login Number: 10753

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10783-1 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/14/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10783-1

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10783-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10783-5	PTLF 12WS37A-D					
Barium		87	1.0	mg/Kg	6010B	
Chromium		190	1.0	mg/Kg	6010B	
Lead		360	1.0	mg/Kg	6010B	
Zinc		700	1.0	mg/Kg	6010B	
Mercury		0.15	0.050	mg/Kg	7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10783-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10783-1

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10783-5	PTLF 12WS37A-D	Solid	09/13/2007 0630	09/13/2007 0914

Analytical Data

Client: ERRG Job Number: 720-10783-1

Client Sample ID: PTLF 12WS37A-D

 Lab Sample ID:
 720-10783-5
 Date Sampled:
 09/13/2007 0630

 Client Matrix:
 Solid
 Date Received:
 09/13/2007 0914

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26052 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-26071 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g

Date Analyzed: 09/13/2007 2144 Final Weight/Volume: 50 mL
Date Prepared: 09/13/2007 1219

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		1.0
Barium		87		1.0
Cadmium		ND		0.50
Chromium		190		1.0
Lead		360		1.0
Selenium		ND		2.0
Silver		ND		1.0
Zinc		700		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26122 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26107 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g

Date Analyzed: 09/14/2007 1051 Final Weight/Volume: 50 mL

Date Prepared: 09/14/2007 0829

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.15 0.050

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10783-1

QC Association Summary

Lab Sample ID Metals Analysis Batch:720-2605 LCS 720-26071/2-A LCSD 720-26071/3-A MB 720-26071/1-A 720-10783-5	Client Sample ID 52 Lab Control Spike Lab Control Spike Duplicate Method Blank PTLF 12WS37A-D	T T T T	Solid Solid	6010B 6010B	720-26071
LCS 720-26071/2-A LCSD 720-26071/3-A MB 720-26071/1-A	Lab Control Spike Lab Control Spike Duplicate Method Blank	T T	Solid		
LCS 720-26071/2-A LCSD 720-26071/3-A MB 720-26071/1-A	Lab Control Spike Lab Control Spike Duplicate Method Blank	T T	Solid		
MB 720-26071/1-A	Method Blank	T		6010B	
		=	0-1:-1	00100	720-26071
720-10783-5	PTLF 12WS37A-D	Т	Solid	6010B	720-26071
			Solid	6010B	720-26071
Prep Batch: 720-26071					
LCS 720-26071/2-A	Lab Control Spike	Т	Solid	3050B	
LCSD 720-26071/3-A	Lab Control Spike Duplicate	Т	Solid	3050B	
MB 720-26071/1-A	Method Blank	T	Solid	3050B	
720-10783-5	PTLF 12WS37A-D	Т	Solid	3050B	
Prep Batch: 720-26107					
LCS 720-26107/2-A	Lab Control Spike	Т	Solid	7471A	
LCSD 720-26107/3-A	Lab Control Spike Duplicate	T	Solid	7471A	
MB 720-26107/1-A	Method Blank	Т	Solid	7471A	
720-10783-5	PTLF 12WS37A-D	Т	Solid	7471A	
720-10783-5MS	Matrix Spike	T	Solid	7471A	
720-10783-5MSD	Matrix Spike Duplicate	T	Solid	7471A	
Analysis Batch:720-2612	22				
LCS 720-26107/2-A	Lab Control Spike	Т	Solid	7471A	720-26107
LCSD 720-26107/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	720-26107
MB 720-26107/1-A	Method Blank	Т	Solid	7471A	720-26107
720-10783-5	PTLF 12WS37A-D	Т	Solid	7471A	720-26107
720-10783-5MS	Matrix Spike	Т	Solid	7471A	720-26107
720-10783-5MSD	Matrix Spike Duplicate	Т	Solid	7471A	720-26107

Report Basis

T = Total

Client: ERRG Job Number: 720-10783-1

Method Blank - Batch: 720-26071 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-26071/1-A Analysis Batch: 720-26052 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26071 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/13/2007 2110 Final Weight/Volume: 50 mL Date Prepared: 09/13/2007 1219

Analyte	Result Qu	ual RL
Arsenic	ND	1.0
Barium	ND	1.0
Cadmium	ND	0.50
Chromium	ND	1.0
Lead	ND	1.0
Selenium	ND	2.0
Silver	ND	1.0
7inc	ND	1.0

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-26071 Preparation: 3050B

LCS Lab Sample ID: LCS 720-26071/2-A Analysis Batch: 720-26052 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26071 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/13/2007 2113 Final Weight/Volume: 50 mL

Date Analyzed: 09/13/2007 2113 Final Weight/Volume: 50 mL Date Prepared: 09/13/2007 1219

LCSD Lab Sample ID: LCSD 720-26071/3-A Analysis Batch: 720-26052 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26071 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/13/2007 2122 Final Weight/Volume: 50 mL
Date Prepared: 09/13/2007 1219

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	91	87	80 - 120	4	20		
Barium	95	89	80 - 120	6	20		
Cadmium	88	87	80 - 120	2	20		
Chromium	90	87	80 - 120	3	20		
Lead	91	88	80 - 120	3	20		
Selenium	93	89	80 - 120	4	20		
Silver	84	83	80 - 120	1	20		
Zinc	92	90	80 - 120	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10783-1

Method Blank - Batch: 720-26107 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-26107/1-A Analysis Batch: 720-26122 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26107 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/14/2007 1045
Date Prepared: 09/14/2007 0829

Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte Result Qual RL

Mercury ND 0.050

Lab Control Spike/ Method: 7471A
Lab Control Spike Duplicate Recovery Report - Batch: 720-26107 Preparation: 7471A

LCS Lab Sample ID: LCS 720-26107/2-A Analysis Batch: 720-26122 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26107 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/14/2007 1046 Final Weight/Volume: 50 mL Date Prepared: 09/14/2007 0829

LCSD Lab Sample ID: LCSD 720-26107/3-A Analysis Batch: 720-26122 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26107 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/14/2007 1047 Final Weight/Volume: 50 mL Date Prepared: 09/14/2007 0829

Analyte LCS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual

Mercury 98 100 85 - 115 1 20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10783-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-26107 Preparation: 7471A

MS Lab Sample ID: 720-10783-5 Analysis Batch: 720-26122 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26107 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g
Date Analyzed: 09/14/2007 1048 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10783-5 Analysis Batch: 720-26122 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26107 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 09/14/2007 1049 Final Weight/Volume: 50 mL

Date Analyzed: 09/14/2007 1049 Final Weight/Volume: 50 mL

Date Prepared: 09/14/2007 0829

 MS
 MSD
 Limit
 RPD
 RPD Limit
 MS Qual
 MSD Qual

 Mercury
 98
 90
 85 - 115
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 20

Date Prepared:

09/14/2007 0829

	ERRG	Engineering 185 Mason C Concord, CA Phone: (925) Fax: (925) 96	ircle, Suit 94520 969-0750	e A		Group CL			<u> </u>	7	2	3	7	Lab										e 1 <u>of 1</u>		•	Ĩ((265
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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10783-1

Login Number: 10783

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10783-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Marma

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/17/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10783-2

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 26182 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10783-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10783-5	PTLF 12WS37A-D				
<i>STLC Citrate</i> Lead		21	0.50	mg/L	6010B
<i>TCLP</i> Lead		1.8	0.50	mg/L	6010B

METHOD SUMMARY

Client: ERRG Job Number: 720-10783-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10783-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
Lab Salliple ID	Chefit Sample ib	Client Matrix	Sampleu	Received
720-10783-5	PTLF 12WS37A-D	Solid	09/13/2007 0630	09/13/2007 0914

Analytical Data

Client: ERRG Job Number: 720-10783-2

Client Sample ID: PTLF 12WS37A-D

 Lab Sample ID:
 720-10783-5
 Date Sampled:
 09/13/2007 0630

 Client Matrix:
 Solid
 Date Received:
 09/13/2007 0914

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:6010BAnalysis Batch: 720-26210Instrument ID:Varian ICPPreparation:3010APrep Batch: 720-26182Lab File ID:N/A

Dilution: 1.0 Leachate Batch: 720-26102 Initial Weight/Volume: 5 mL

Date Analyzed: 09/17/2007 1406 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 0844

Date Prepared: 09/17/2007 0844 Date Leached: 09/13/2007 1833

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 1.8 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:6010BAnalysis Batch: 720-26210Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26188Lab File ID:N/ADilution:1.0Leachate Batch: 720-26127Initial Weight/Volume:5 mL

Dilution: 1.0 Leachate Batch: 720-26127 Initial Weight/Volume: 5 mL

Date Analyzed: 09/17/2007 1432 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1113

Date Leached: 09/14/2007 1238

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 21 0.50

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10783-2

Lab Section	Qualifier	Description
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ERRG Job Number: 720-10783-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-26009					
LCS 720-26009/2-B	Lab Control Spike	Р	Solid	1311	
LCSD 720-26009/3-B	Lab Control Spike Duplicate	Р	Solid	1311	
MB 720-26009/1-B	Method Blank	Р	Solid	1311	
Prep Batch: 720-26102					
720-10783-5	PTLF 12WS37A-D	Р	Solid	1311	
Prep Batch: 720-26127					
LCS 720-26127/2-B	Lab Control Spike	С	Solid	CA WET Citrate	
LCSD 720-26127/3-D	Lab Control Spike Duplicate	С	Solid	CA WET Citrate	
MB 720-26127/1-B	Method Blank	С	Solid	CA WET Citrate	
720-10783-5	PTLF 12WS37A-D	С	Solid	CA WET Citrate	
Prep Batch: 720-26182					
LCS 720-26009/2-B	Lab Control Spike	Р	Solid	3010A	720-26009
LCSD 720-26009/3-B	Lab Control Spike Duplicate	Р	Solid	3010A	720-26009
MB 720-26009/1-B	Method Blank	Р	Solid	3010A	720-26009
720-10669-A-1-M MS	Matrix Spike	Р	Solid	3010A	
720-10669-A-1-N MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10783-5	PTLF 12WS37A-D	Р	Solid	3010A	720-26102
Prep Batch: 720-26188					
LCS 720-26127/2-B	Lab Control Spike	С	Solid	3005A	720-26127
LCSD 720-26127/3-D	Lab Control Spike Duplicate	С	Solid	3005A	720-26127
MB 720-26127/1-B	Method Blank	С	Solid	3005A	720-26127
720-10783-5	PTLF 12WS37A-D	С	Solid	3005A	720-26127
Analysis Batch:720-2621					
LCS 720-26009/2-B	Lab Control Spike	Р	Solid	6010B	720-26182
LCSD 720-26009/3-B	Lab Control Spike Duplicate	Р	Solid	6010B	720-26182
MB 720-26009/1-B	Method Blank	Р	Solid	6010B	720-26182
LCS 720-26127/2-B	Lab Control Spike	С	Solid	6010B	720-26188
LCSD 720-26127/3-D	Lab Control Spike Duplicate	С	Solid	6010B	720-26188
MB 720-26127/1-B	Method Blank	С	Solid	6010B	720-26188
720-10669-A-1-M MS	Matrix Spike	Р	Solid	6010B	720-26182
720-10669-A-1-N MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-26182
720-10783-5	PTLF 12WS37A-D	P	Solid	6010B	720-26182
720-10783-5	PTLF 12WS37A-D	С	Solid	6010B	720-26188

Report Basis

C = STLC Citrate

P = TCLP

Client: ERRG Job Number: 720-10783-2

Method Blank - Batch: 720-26182 Method: 6010B Preparation: 3010A

TCLP

Lab File ID:

Method: 6010B

Instrument ID: Varian ICP

N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Lab Sample ID: MB 720-26009/1-B Analysis Batch: 720-26210

Client Matrix: Solid Prep Batch: 720-26182

Units: mg/L Dilution: 1.0

Date Analyzed: 09/17/2007 1314 Date Prepared: 09/17/2007 0844

Date Leached: 09/12/2007 1204 Leachate Batch: 720-26009

RL Analyte Result Qual

Lead ND 0.50

Lab Control Spike/ Lab Control Spike Duplicate Recovery Report - Batch: 720-26182

Preparation: 3010A **TCLP**

LCS Lab Sample ID: LCS 720-26009/2-B Instrument ID: Varian ICP Analysis Batch: 720-26210

Client Matrix: Solid Prep Batch: 720-26182 Lab File ID: N/A Dilution: 1.0

Units: mg/L Initial Weight/Volume: 5 mL Final Weight/Volume: Date Analyzed: 09/17/2007 1318 50 mL

09/17/2007 0844 Date Prepared: Date Leached: 09/12/2007 1204 Leachate Batch: 720-26009

LCSD Lab Sample ID: LCSD 720-26009/3-B Analysis Batch: 720-26210 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26182 Lab File ID: N/A Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL Date Analyzed: 09/17/2007 1321 Date Prepared: 09/17/2007 0844

Date Leached: 09/12/2007 1204 Leachate Batch: 720-26009

% Rec. Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual

Lead 91 92 80 - 120

Client: ERRG Job Number: 720-10783-2

Analysis Batch: 720-26210

Prep Batch: 720-26182

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-26182 Pre

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: 720-10669-A-1-M MS

Client Matrix: Solid

Dilution: 1.0
Date Analyzed: 09/17/

Date Analyzed: 09/17/2007 1344 Date Prepared: 09/17/2007 0844 Instrument ID: Varian ICP
Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10669-A-1-N MSD

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/17/2007 1348 Date Prepared: 09/17/2007 0844 Analysis Batch: 720-26210 Instrument ID: Varian ICP Prep Batch: 720-26182 Lab File ID: N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	36	-8	75 - 125	1	20	4	4

Client: ERRG Job Number: 720-10783-2

Method Blank - Batch: 720-26188

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-26127/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/17/2007 1421 Date Prepared: 09/17/2007 1113

Date Leached: 09/14/2007 1238

Analysis Batch: 720-26210 Prep Batch: 720-26188

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-26127

RL Analyte Result Qual Lead ND 0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-26188

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

5 mL

50 mL

LCS Lab Sample ID: LCS 720-26127/2-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/17/2007 1425 Date Prepared: 09/17/2007 1113

Date Leached: 09/14/2007 1238

LCSD Lab Sample ID: LCSD 720-26127/3-D

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/17/2007 1429

Date Prepared: 09/17/2007 1113

Date Leached: 09/14/2007 1238 Analysis Batch: 720-26210

Prep Batch: 720-26188

Units: mg/L

Leachate Batch: 720-26127

Analysis Batch: 720-26210

Prep Batch: 720-26188

Units: mg/L

Leachate Batch: 720-26127

Instrument ID: Varian ICP

Lab File ID: N/A

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume:

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Lead 94 94 80 - 120

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10783-2

Login Number: 10783

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10813-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Surmider Sidhu

Designee for
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
09/17/2007

c: Mr. Goose Tucker

Job Narrative 720-J10813-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 26158 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10813-1

Lab Sample ID	Client Sample ID		Reporting			
Analyte		Result / Qualifier	Limit	Units	Method	
720-10813-3	PTLF 12WS 38 A,B-	C,D				
Barium		120	0.96	mg/Kg	6010B	
Chromium		110	0.96	mg/Kg	6010B	
Lead		270	0.96	mg/Kg	6010B	
Zinc		240	0.96	mg/Kg	6010B	
Mercury		0.29	0.049	mg/Kg	7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10813-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor	TAL SF	SW846 7471A	
Technique) Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10813-1

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10813-3	PTLF 12WS 38 A,B-C,D	Solid	09/14/2007 0730	09/14/2007 0935

Analytical Data

Client: ERRG Job Number: 720-10813-1

Client Sample ID: PTLF 12WS 38 A,B-C,D

 Lab Sample ID:
 720-10813-3
 Date Sampled:
 09/14/2007 0730

 Client Matrix:
 Solid
 Date Received:
 09/14/2007 0935

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26195 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-26158 Lab File ID: N/A

Dilution: 1.0 Lab File ID. N/A

Initial Weight/Volume: 1.04 g

Date Analyzed: 09/17/2007 1139 Final Weight/Volume: 50 mL Date Prepared: 09/14/2007 1630

Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RLArsenic ND 0.96 Barium 120 0.96 Cadmium ND 0.48 Chromium 110 0.96 Lead 270 0.96 Selenium ND 1.9 Silver ND 0.96 Zinc 240 0.96

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26229 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.03 g

Date Analyzed: 09/17/2007 1748 Final Weight/Volume: 50 mL Date Prepared: 09/17/2007 1538

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.29 0.049

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10813-1

Lab Section	Qualifier	Description	
Metals			
	F	MS or MSD exceeds the control limits	

Client: ERRG Job Number: 720-10813-1

QC Association Summary

Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Lab Control Spike	T	Solid	3050B	
Lab Control Spike Duplicate	T	Solid	3050B	
Method Blank	T	Solid	3050B	
Matrix Spike	Т	Solid	3050B	
Matrix Spike Duplicate	Т	Solid	3050B	
PTLF 12WS 38 A,B-C,D	Т	Solid	3050B	
5				
	Т	Solid	6010B	720-26158
	Т	Solid	6010B	720-26158
Method Blank	Т	Solid	6010B	720-26158
Matrix Spike	Т	Solid	6010B	720-26158
•	Т	Solid	6010B	720-26158
PTLF 12WS 38 A,B-C,D	T	Solid	6010B	720-26158
Lab Control Spike	Т	Solid	7471A	
	-			
Matrix Spike Duplicate	Ť	Solid	7471A	
9				
	Т	Solid	7471A	720-26221
				720-26221
·				720-26221
				720-26221
				720-26221
				720-26221
	Method Blank Matrix Spike Matrix Spike Duplicate PTLF 12WS 38 A,B-C,D 5 Lab Control Spike Lab Control Spike Duplicate Method Blank Matrix Spike Matrix Spike Duplicate PTLF 12WS 38 A,B-C,D Lab Control Spike Lab Control Spike Lab Control Spike Lab Control Spike Matrix Spike Matrix Spike Matrix Spike Matrix Spike Matrix Spike Matrix Spike Matrix Spike	Method Blank Matrix Spike Matrix Spike Duplicate PTLF 12WS 38 A,B-C,D T T Lab Control Spike Lab Control Spike Duplicate Method Blank Matrix Spike Matrix Spike Duplicate PTLF 12WS 38 A,B-C,D Lab Control Spike T Matrix Spike Duplicate PTLF 12WS 38 A,B-C,D Lab Control Spike T Method Blank PTLF 12WS 38 A,B-C,D T Matrix Spike Matrix Spike Duplicate T Method Blank PTLF 12WS 38 A,B-C,D T Matrix Spike Duplicate T Method Blank PTLF 12WS 38 A,B-C,D T Matrix Spike Duplicate T Method Blank PTLF 12WS 38 A,B-C,D T Matrix Spike T Method Blank PTLF 12WS 38 A,B-C,D T Matrix Spike T Matrix Spike T	Method Blank Matrix Spike Matrix Spike Duplicate PTLF 12WS 38 A,B-C,D T Solid PTLF 12WS 38 A,B-C,D T Solid PTLF 12WS 38 A,B-C,D T Solid Lab Control Spike Lab Control Spike Duplicate Method Blank Matrix Spike Matrix Spike Duplicate PTLF 12WS 38 A,B-C,D T Solid Lab Control Spike Duplicate T Solid PTLF 12WS 38 A,B-C,D T Solid Matrix Spike Duplicate T Solid Matrix Spike Duplicate T Solid Matrix Spike Duplicate T Solid Matrix Spike T Solid Matrix Spike T Solid Matrix Spike Duplicate T Solid Matrix Spike Duplicate T Solid Matrix Spike Duplicate T Solid Matrix Spike Duplicate T Solid Matrix Spike Duplicate T Solid Matrix Spike Duplicate T Solid Matrix Spike Duplicate T Solid Matrix Spike T Solid Matrix Spike T Solid Matrix Spike T Solid Matrix Spike T Solid Matrix Spike T Solid Matrix Spike T Solid Matrix Spike T Solid Matrix Spike T Solid	Method Blank T Solid 3050B Matrix Spike T Solid 3050B Matrix Spike Duplicate T Solid 3050B PTLF 12WS 38 A,B-C,D T Solid 3050B 5 Lab Control Spike T Solid 6010B Lab Control Spike Duplicate T Solid 6010B Method Blank T Solid 6010B Matrix Spike Duplicate T Solid 6010B PTLF 12WS 38 A,B-C,D T Solid 7471A Lab Control Spike T Solid 7471A Method Blank T Solid 7471A PTLF 12WS 38 A,B-C,D T Solid 7471A Matrix Spike T Solid 7471A Matrix Spike Duplicate T Solid 7471A Matrix Spike Duplicate T Solid 7471A Method Blank T Solid 7471A Method Blank T Solid 7471A

Report Basis T = Total

Client: ERRG Job Number: 720-10813-1

Method Blank - Batch: 720-26158 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-26158/1-A Analysis Batch: 720-26195 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26158 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 c

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/17/2007 1114 Final Weight/Volume: 50 mL
Date Prepared: 09/14/2007 1630

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Barium	ND		1.0
Cadmium	ND		0.50
Chromium	ND		1.0
Lead	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Zinc	ND		1.0

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-26158 Preparation: 3050B

LCS Lab Sample ID: LCS 720-26158/2-A Analysis Batch: 720-26195 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26158 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/17/2007 1117 Final Weight/Volume: 50 mL

Date Analyzed: 09/17/2007 1117 Final Weight/Volume: 50 mL Date Prepared: 09/14/2007 1630

LCSD Lab Sample ID: LCSD 720-26158/3-A Analysis Batch: 720-26195 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26158 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/17/2007 1121 Final Weight/Volume: 50 mL
Date Prepared: 09/14/2007 1630

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	94	94	80 - 120	0	20		
Barium	86	85	80 - 120	0	20		
Cadmium	92	92	80 - 120	0	20		
Chromium	93	93	80 - 120	0	20		
Lead	93	93	80 - 120	0	20		
Selenium	97	96	80 - 120	1	20		
Silver	94	93	80 - 120	0	20		
Zinc	92	92	80 - 120	0	20		

Client: ERRG Job Number: 720-10813-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-26158 Method: 6010B Preparation: 3050B

MS Lab Sample ID: 720-10778-A-13-E MS

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/17/2007 1125 Date Prepared: 09/14/2007 1630

Analysis Batch: 720-26195

Prep Batch: 720-26158

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10778-A-13-F MSD Analysis Batch: 720-26195 Client Matrix:

Dilution:

Solid

Prep Batch: 720-26158

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 0.99 g

1.0 Date Analyzed: 09/17/2007 1129 Final Weight/Volume: 50 mL Date Prepared: 09/14/2007 1630

	<u>% R</u>	ec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	67	66	75 - 125	0	20	F	F
Barium	56	60	75 - 125	4	20	F	F
Cadmium	60	59	75 - 125	1	20	F	F
Chromium	48	43	75 - 125	2	20	F	F
Lead	60	60	75 - 125	1	20	F	F
Selenium	66	65	75 - 125	0	20	F	F
Silver	72	71	75 - 125	1	20	F	F
Zinc	39	40	75 - 125	3	20	F	F

Client: ERRG Job Number: 720-10813-1

Method Blank - Batch: 720-26221 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-26221/1-A Analysis Batch: 720-26229 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26221 Lab File ID: N/A Units: mg/Kg Dilution: 1.0 Initial Weight/Volume: 1 g

Date Analyzed: 09/17/2007 1740 Final Weight/Volume: 50 mL Date Prepared: 09/17/2007 1538

Qual RL Analyte Result Mercury ND 0.050

Lab Control Spike/ Method: 7471A Lab Control Spike Duplicate Recovery Report - Batch: 720-26221 Preparation: 7471A

LCS Lab Sample ID: LCS 720-26221/2-A Instrument ID: FIMS 100 Analysis Batch: 720-26229

Client Matrix: Solid Prep Batch: 720-26221 Lab File ID: N/A Dilution: 1.0

Units: mg/Kg Initial Weight/Volume: 1 g Final Weight/Volume: Date Analyzed: 09/17/2007 1742 50 mL

09/17/2007 1538 Date Prepared:

LCSD Lab Sample ID: LCSD 720-26221/3-A Analysis Batch: 720-26229 Instrument ID: **FIMS 100**

Client Matrix: Solid Prep Batch: 720-26221 Lab File ID: N/A Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/17/2007 1743 Final Weight/Volume: 50 mL Date Prepared: 09/17/2007 1538

% Rec. Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Mercury 113 112 85 - 115

Client: ERRG Job Number: 720-10813-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-26221 Preparation: 7471A

MS Lab Sample ID: 720-10820-A-10-I MS Analysis Batch: 720-26229 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.95 g
Date Analyzed: 09/17/2007 1744 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1538

MSD Lab Sample ID: 720-10820-A-10-J MSD Analysis Batch: 720-26229 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g

Date Analyzed: 09/17/2007 1745 Final Weight/Volume: 50 mL Date Prepared: 09/17/2007 1538

 MS
 MSD
 Limit
 RPD
 RPD Limit
 MS Qual
 MSD Qual

 Mercury
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Sample				glas									Pb	8	<u>ا</u>	: }	4							hr	per	Comments	Lab
Designation	Date	Time		8 oz						soil			STLC Pb	RCRA	912	45	\ \							7	N Z	Con	For
PTLF12WS 38	9/14/01	0736				T				X				X	χ	_	1	1							2		
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185 Mason Circle, Suite A Concord, CA 94520

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10813-1

Login Number: 10813

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10813-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/17/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10813-2

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 26182 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10813-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10813-3	PTLF 12WS 38 A,B-	C,D				
STLC Citrate Lead		34	0.50	mg/L	6010B	
<i>TCLP</i> Lead		1.6	0.50	mg/L	6010B	

METHOD SUMMARY

Client: ERRG Job Number: 720-10813-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10813-2

	AII	A 11	Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10813-3	PTLF 12WS 38 A,B-C,D	Solid	09/14/2007 0730	09/14/2007 0935

Analytical Data

RL

Client: ERRG Job Number: 720-10813-2

Client Sample ID: PTLF 12WS 38 A,B-C,D

09/14/2007 1238

 Lab Sample ID:
 720-10813-3
 Date Sampled:
 09/14/2007 0730

 Client Matrix:
 Solid
 Date Received:
 09/14/2007 0935

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-26210 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26182 Lab File ID: N/A

Dilution: 1.0 Leachate Batch: 720-26124 Initial Weight/Volume: 5 mL

Date Analyzed: 09/17/2007 1352 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 0844

Date Leached: 09/14/2007 1221

Analyte DryWt Corrected: N Result (mg/L) Qualifier

Lead 1.6 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:6010BAnalysis Batch: 720-26210Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26188Lab File ID:N/ADilution:1.0Leachate Batch: 720-26127Initial Weight/Volume:5 mL

Dilution: 1.0 Leachate Batch: 720-26127 Initial Weight/Volume: 5 mL

Date Analyzed: 09/17/2007 1436 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1113

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 34 0.50

Date Leached:

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10813-2

Lab Section	Qualifier	Description
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ERRG Job Number: 720-10813-2

QC Association Summary

	-	Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-26009					
LCS 720-26009/2-B	Lab Control Spike	Р	Solid	1311	
LCSD 720-26009/3-B	Lab Control Spike Duplicate	Р	Solid	1311	
MB 720-26009/1-B	Method Blank	Р	Solid	1311	
Prep Batch: 720-26124					
720-10813-3	PTLF 12WS 38 A,B-C,D	Р	Solid	1311	
Prep Batch: 720-26127					
LCS 720-26127/2-B	Lab Control Spike	С	Solid	CA WET Citrate	
LCSD 720-26127/3-D	Lab Control Spike Duplicate	С	Solid	CA WET Citrate	
MB 720-26127/1-B	Method Blank	С	Solid	CA WET Citrate	
720-10813-3	PTLF 12WS 38 A,B-C,D	С	Solid	CA WET Citrate	
Prep Batch: 720-26182					
LCS 720-26009/2-B	Lab Control Spike	Р	Solid	3010A	720-26009
LCSD 720-26009/3-B	Lab Control Spike Duplicate	Р	Solid	3010A	720-26009
MB 720-26009/1-B	Method Blank	Р	Solid	3010A	720-26009
720-10669-A-1-M MS	Matrix Spike	Р	Solid	3010A	
720-10669-A-1-N MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10813-3	PTLF 12WS 38 A,B-C,D	Р	Solid	3010A	720-26124
Prep Batch: 720-26188					
LCS 720-26127/2-B	Lab Control Spike	С	Solid	3005A	720-26127
LCSD 720-26127/3-D	Lab Control Spike Duplicate	С	Solid	3005A	720-26127
MB 720-26127/1-B	Method Blank	С	Solid	3005A	720-26127
720-10813-3	PTLF 12WS 38 A,B-C,D	С	Solid	3005A	720-26127
Analysis Batch:720-2621					
LCS 720-26009/2-B	Lab Control Spike	Р	Solid	6010B	720-26182
LCSD 720-26009/3-B	Lab Control Spike Duplicate	Р	Solid	6010B	720-26182
MB 720-26009/1-B	Method Blank	Р	Solid	6010B	720-26182
LCS 720-26127/2-B	Lab Control Spike	С	Solid	6010B	720-26188
LCSD 720-26127/3-D	Lab Control Spike Duplicate	С	Solid	6010B	720-26188
MB 720-26127/1-B	Method Blank	С	Solid	6010B	720-26188
720-10669-A-1-M MS	Matrix Spike	P	Solid	6010B	720-26182
720-10669-A-1-N MSD	Matrix Spike Duplicate	P	Solid	6010B	720-26182
720-10813-3	PTLF 12WS 38 A,B-C,D	Р	Solid	6010B	720-26182
720-10813-3	PTLF 12WS 38 A,B-C,D	С	Solid	6010B	720-26188

Report Basis

C = STLC Citrate

P = TCLP

Client: ERRG Job Number: 720-10813-2

Method Blank - Batch: 720-26182 Method: 6010B Preparation: 3010A

TCLP

Lab File ID:

Instrument ID: Varian ICP

N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Lab Sample ID: MB 720-26009/1-B Analysis Batch: 720-26210

Client Matrix: Solid Prep Batch: 720-26182

Dilution: 1.0 Units: mg/L

Date Analyzed: 09/17/2007 1314 Date Prepared: 09/17/2007 0844

Date Leached: 09/12/2007 1204 Leachate Batch: 720-26009

Analyte Result Qual RL

Lead ND 0.50

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-26182 Preparation: 3010A

TCLP

LCS Lab Sample ID: LCS 720-26009/2-B Analysis Batch: 720-26210 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26182 Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL

Date Analyzed: 09/17/2007 1318 Final Weight/Volume: 50 mL Date Prepared: 09/17/2007 0844

Date Prepared: 09/17/2007 0844

Date Leached: 09/12/2007 1204 Leachate Batch: 720-26009

LCSD Lab Sample ID: LCSD 720-26009/3-B Analysis Batch: 720-26210 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26182 Lab File ID: N/A
Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL

Date Analyzed: 09/17/2007 1321 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 0844

Date Leached: 09/12/2007 1204 Leachate Batch: 720-26009

% Rec.

Analyte LCS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual Lead 91 92 80 - 120 2 20

Client: ERRG Job Number: 720-10813-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-26182

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: 720-10669-A-1-M MS

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/17/2007 1344

Date Prepared: 09/17/2007 0844

Analysis Batch: 720-26210

Prep Batch: 720-26182

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10669-A-1-N MSD

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/17/2007 1348 Date Prepared: 09/17/2007 0844 Analysis Batch: 720-26210 Instrument ID: Varian ICP

Prep Batch: 720-26182 Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	36	-8	75 - 125	1	20	4	4

Client: ERRG Job Number: 720-10813-2

Method Blank - Batch: 720-26188

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-26127/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/17/2007 1421 Date Prepared: 09/17/2007 1113

Date Leached: 09/14/2007 1238

Analysis Batch: 720-26210 Prep Batch: 720-26188

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-26127

RL Analyte Result Qual Lead ND 0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-26188

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

5 mL

Varian ICP

N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

50 mL

Lab File ID: N/A

Instrument ID:

Lab File ID:

Initial Weight/Volume:

Final Weight/Volume:

LCS Lab Sample ID: LCS 720-26127/2-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/17/2007 1425 Date Prepared: 09/17/2007 1113

Date Leached: 09/14/2007 1238

LCSD Lab Sample ID: LCSD 720-26127/3-D

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/17/2007 1429 Date Prepared: 09/17/2007 1113

Date Leached: 09/14/2007 1238

Analysis Batch: 720-26210 Prep Batch: 720-26188

Leachate Batch: 720-26127

Analysis Batch: 720-26210

Prep Batch: 720-26188

Units: mg/L

Units: mg/L

Leachate Batch: 720-26127

% Rec.

Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual Lead 94 94 80 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10813-2

Login Number: 10813

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10820-1 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/18/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10820-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 26242 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10820-1	PTLF 12IS-1				
Barium Chromium Lead Zinc Mercury		370 130 1500 920 0.46	1.0 1.0 1.0 1.0 0.048	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-2	PTLF 12IS-2				
Barium Chromium Lead Zinc Mercury		91 46 220 82 0.21	1.0 1.0 1.0 1.0 0.048	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-3	PTLF 12IS-3				
Arsenic Barium Chromium Lead Zinc Mercury		2.3 150 120 310 250 0.55	0.95 0.95 0.95 0.95 0.95 0.048	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 6010B 7471A
720-10820-4	PTLF 12IS-4				
Barium Chromium Lead Zinc Mercury		250 160 450 260 0.41	1.0 1.0 1.0 1.0 0.051	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-5	PTLF 12IS-5				
Barium Chromium Lead Zinc Mercury		760 95 100 110 0.070	10 1.0 1.0 1.0 0.051	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10820-6	PTLF 12IS-6				
Barium Chromium Lead Zinc Mercury		160 97 1300 270 0.21	1.0 1.0 1.0 1.0 0.049	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-7	PTLF 12IS-7				
Barium Chromium Lead Zinc Mercury		130 100 190 240 0.12	1.0 1.0 1.0 1.0 0.051	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-8	PTLF 12IS-8				
Barium Chromium Lead Zinc Mercury		220 150 350 400 0.16	1.1 1.1 1.1 1.1 0.050	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-9	PTLF 12IS-9				
Barium Chromium Lead Zinc Mercury		100 58 49 63 0.074	0.96 0.96 0.96 0.96 0.052	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-10	PTLF 12IS-10				
Barium Chromium Lead Zinc Mercury		110 56 86 87 0.092	0.99 0.99 0.99 0.99 0.050	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10820-11	PTLF 12IS-11				
Barium Chromium Lead Zinc Mercury		110 370 170 150 0.16	0.96 0.96 0.96 0.96 0.051	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-12	PTLF 12IS-12				
Barium Chromium Lead Zinc Mercury		120 120 190 250 0.15	0.97 0.97 0.97 0.97 0.052	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-13	PTLF 12IS-13				
Barium Chromium Lead Zinc Mercury		140 160 250 360 0.14	0.95 0.95 0.95 0.95 0.048	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-14	PTLF 12IS-14				
Barium Chromium Lead Zinc Mercury		68 270 24 46 0.073	1.1 1.1 1.1 1.1 0.048	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-15	PTLF 12IS-16				
Barium Chromium Lead Zinc Mercury		130 220 310 440 0.13	0.95 0.95 0.95 0.95 0.052	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10820-16	PTLF 12IS-17				
Arsenic Barium Chromium Lead Zinc Mercury		2.8 130 87 180 300 0.067	1.0 1.0 1.0 1.0 1.0 0.050	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 6010B 7471A
720-10820-17	PTLF 12IS-19				
Barium Chromium Lead Zinc Mercury		190 82 340 190 0.29	0.99 0.99 0.99 0.99 0.049	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A
720-10820-18	PTLF 12IS-20				
Barium Chromium Lead Zinc Mercury		84 92 33 48 0.094	0.98 0.98 0.98 0.98 0.052	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A

METHOD SUMMARY

Client: ERRG Job Number: 720-10820-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor	TAL SF	SW846 7471A	
Technique) Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10820-1	PTLF 12IS-1	Solid	09/14/2007 1220	09/14/2007 1440
720-10820-2	PTLF 12IS-2	Solid	09/14/2007 1200	09/14/2007 1440
720-10820-3	PTLF 12IS-3	Solid	09/14/2007 1155	09/14/2007 1440
720-10820-4	PTLF 12IS-4	Solid	09/14/2007 1157	09/14/2007 1440
720-10820-5	PTLF 12IS-5	Solid	09/14/2007 1150	09/14/2007 1440
720-10820-6	PTLF 12IS-6	Solid	09/14/2007 1225	09/14/2007 1440
720-10820-7	PTLF 12IS-7	Solid	09/14/2007 1125	09/14/2007 1440
720-10820-8	PTLF 12IS-8	Solid	09/14/2007 1130	09/14/2007 1440
720-10820-9	PTLF 12IS-9	Solid	09/14/2007 1115	09/14/2007 1440
720-10820-10	PTLF 12IS-10	Solid	09/14/2007 1100	09/14/2007 1440
720-10820-11	PTLF 12IS-11	Solid	09/14/2007 1055	09/14/2007 1440
720-10820-12	PTLF 12IS-12	Solid	09/14/2007 1110	09/14/2007 1440
720-10820-13	PTLF 12IS-13	Solid	09/14/2007 1055	09/14/2007 1440
720-10820-14	PTLF 12IS-14	Solid	09/14/2007 1040	09/14/2007 1440
720-10820-15	PTLF 12IS-16	Solid	09/14/2007 1030	09/14/2007 1440
720-10820-16	PTLF 12IS-17	Solid	09/14/2007 1035	09/14/2007 1440
720-10820-17	PTLF 12IS-19	Solid	09/14/2007 1147	09/14/2007 1440
720-10820-18	PTLF 12IS-20	Solid	09/14/2007 1215	09/14/2007 1440

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-1

 Lab Sample ID:
 720-10820-1
 Date Sampled:
 09/14/2007
 1220

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26253 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-26217 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g
Date Analyzed: 09/18/2007 1121 Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1121
Date Prepared: 09/17/2007 1500

Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RLArsenic ND 1.0 Barium 370 1.0 Cadmium ND 0.50 Chromium 130 1.0 Lead 1500 1.0 Selenium ND 2.0 Silver ND 1.0 Zinc 920 1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26229 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g

Date Analyzed: 09/17/2007 1848 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1538

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.46 0.048

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-2

Lab Sample ID: 720-10820-2 Date Sampled: 09/14/2007 1200 Client Matrix: Solid Date Received: 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

6010B Analysis Batch: 720-26253 Method: Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-26217 Lab File ID: N/A Dilution: 1.0 Initial Weight/Volume: 0.97 g

Date Analyzed: 09/18/2007 1125

Final Weight/Volume: 50 mL Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		1.0
Barium		91		1.0
Cadmium		ND		0.52
Chromium		46		1.0
Lead		220		1.0
Selenium		ND		2.1
Silver		ND		1.0
Zinc		82		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: **FIMS 100** 7471A Analysis Batch: 720-26229 Instrument ID: Preparation: 7471A Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g Final Weight/Volume: Date Analyzed: 09/17/2007 1849 50 mL Date Prepared: 09/17/2007 1538

RLAnalyte DryWt Corrected: N Result (mg/Kg) Qualifier

Mercury 0.21 0.048

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-3

 Lab Sample ID:
 720-10820-3
 Date Sampled:
 09/14/2007 1155

 Client Matrix:
 Solid
 Date Received:
 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26253Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26217Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.05 g

Date Analyzed: 09/18/2007 1128

Date Analyzed: 09/18/2007 1128

Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		2.3		0.95
Barium		150		0.95
Cadmium		ND		0.48
Chromium		120		0.95
Lead		310		0.95
Selenium		ND		1.9
Silver		ND		0.95
Zinc		250		0.95

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26229Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26221Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 09/17/2007 1851 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1538

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.55 0.048

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-4

Lab Sample ID: 720-10820-4 Date Sampled: 09/14/2007 1157 Client Matrix: Solid Date Received: 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

6010B Analysis Batch: 720-26253 Method: Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-26217 Lab File ID: N/A Dilution: 1.0

Initial Weight/Volume: 0.98 g Final Weight/Volume: 50 mL Date Analyzed: 09/18/2007 1132

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		1.0
Barium		250		1.0
Cadmium		ND		0.51
Chromium		160		1.0
Lead		450		1.0
Selenium		ND		2.0
Silver		ND		1.0
Zinc		260		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: **FIMS 100** 7471A Analysis Batch: 720-26229 Instrument ID: Preparation: 7471A Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.98 g Final Weight/Volume: Date Analyzed: 09/17/2007 1852 50 mL

Date Prepared: 09/17/2007 1538

RLAnalyte DryWt Corrected: N Result (mg/Kg) Qualifier Mercury 0.41 0.051

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-5

 Lab Sample ID:
 720-10820-5
 Date Sampled:
 09/14/2007
 1150

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26253Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26217Lab File ID:N/ADilution:1.0Initial Weight/Volume:0.98 g

Dilution: 1.0 Initial Weight/Volume: 0.98 g
Date Analyzed: 09/18/2007 1136 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte	Dry	Wt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic			ND		1.0
Cadmium			ND		0.51
Chromium			95		1.0
Lead			100		1.0
Selenium			ND		2.0
Silver			ND		1.0
Zinc			110		1.0
Method:	6010B	Analy	sis Batch: 720-26253	Instrument	ID: Varian ICF

Method:6010BAnalysis Batch: 720-26253Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26217Lab File ID:N/ADilution:10Initial Weight/Volume:0.98 g

Date Analyzed: 09/18/2007 1307 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL
Barium 760 10

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26229Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26221Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 09/17/2007 1853 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1538

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.070
 0.051

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-6

 Lab Sample ID:
 720-10820-6
 Date Sampled:
 09/14/2007
 1225

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26253 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-26217 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g
Date Analyzed: 09/18/2007 1139 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		1.0
Barium		160		1.0
Cadmium		ND		0.50
Chromium		97		1.0
Lead		1300		1.0
Selenium		ND		2.0
Silver		ND		1.0
Zinc		270		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26229Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26221Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g
Date Analyzed: 09/17/2007 1854 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1538

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.21 0.049

Varian ICP

N/A

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-7

 Lab Sample ID:
 720-10820-7
 Date Sampled:
 09/14/2007
 1125

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26253 Instrument ID:
Preparation: 3050B Prep Batch: 720-26217 Lab File ID:

Dilution: 1.0

Dilution: 1.0 Initial Weight/Volume: 0.96 g
Date Analyzed: 09/18/2007 1153 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		1.0
Barium		130		1.0
Cadmium		ND		0.52
Chromium		100		1.0
Lead		190		1.0
Selenium		ND		2.1
Silver		ND		1.0
Zinc		240		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26229Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26221Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 09/17/2007 1856 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1538

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.12 0.051

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-8

Lab Sample ID: 720-10820-8 Date Sampled: 09/14/2007 1130 Client Matrix: Solid Date Received: 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

6010B Analysis Batch: 720-26253 Method: Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-26217 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.95 g Final Weight/Volume: 50 mL Date Analyzed: 09/18/2007 1157

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		1.1
Barium		220		1.1
Cadmium		ND		0.53
Chromium		150		1.1
Lead		350		1.1
Selenium		ND		2.1
Silver		ND		1.1
Zinc		400		1.1

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: **FIMS 100** 7471A Analysis Batch: 720-26229 Instrument ID: Preparation: 7471A Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g Final Weight/Volume: Date Analyzed: 09/17/2007 1857 50 mL

Date Prepared: 09/17/2007 1538

RLAnalyte DryWt Corrected: N Result (mg/Kg) Qualifier Mercury 0.16 0.050

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-9

 Lab Sample ID:
 720-10820-9
 Date Sampled:
 09/14/2007
 1115

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26253Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26217Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.04 g

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 09/18/2007 1201 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.96
Barium		100		0.96
Cadmium		ND		0.48
Chromium		58		0.96
Lead		49		0.96
Selenium		ND		1.9
Silver		ND		0.96
Zinc		63		0.96

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26229Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26221Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 0.96 g
Date Analyzed: 09/17/2007 1900 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1538

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.074
 0.052

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-10

Lab Sample ID: 720-10820-10 Date Sampled: 09/14/2007 1100 Client Matrix: Solid Date Received: 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

6010B Analysis Batch: 720-26253 Method: Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-26217 Lab File ID: N/A Dilution: 1.0

Initial Weight/Volume: 1.01 g Final Weight/Volume: Date Analyzed: 09/18/2007 1106 50 mL

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.99
Barium		110		0.99
Cadmium		ND		0.50
Chromium		56		0.99
Lead		86		0.99
Selenium		ND		2.0
Silver		ND		0.99
Zinc		87		0.99

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: **FIMS 100** 7471A Analysis Batch: 720-26229 Instrument ID: Preparation: 7471A Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g Final Weight/Volume: Date Analyzed: 09/17/2007 1746 50 mL Date Prepared: 09/17/2007 1538

RLAnalyte DryWt Corrected: N Result (mg/Kg) Qualifier

Mercury 0.092 0.050

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-11

 Lab Sample ID:
 720-10820-11
 Date Sampled:
 09/14/2007 1055

 Client Matrix:
 Solid
 Date Received:
 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26253Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26217Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.04 g

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 09/18/2007 1204 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.96
Barium		110		0.96
Cadmium		ND		0.48
Chromium		370		0.96
Lead		170		0.96
Selenium		ND		1.9
Silver		ND		0.96
Zinc		150		0.96

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26229Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26221Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 0.98 g
Date Analyzed: 09/17/2007 1902 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1538

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.16
 0.051

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-12

 Lab Sample ID:
 720-10820-12
 Date Sampled:
 09/14/2007
 1110

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26253Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26217Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.03 g

Dilution: 1.0 Initial Weight/Volume: 1.03 g
Date Analyzed: 09/18/2007 1208 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.97
Barium		120		0.97
Cadmium		ND		0.49
Chromium		120		0.97
Lead		190		0.97
Selenium		ND		1.9
Silver		ND		0.97
Zinc		250		0.97

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26229Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26221Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 0.96 g
Date Analyzed: 09/17/2007 1903 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1538

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.15 0.052

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-13

 Lab Sample ID:
 720-10820-13
 Date Sampled:
 09/14/2007
 1055

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26253Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26217Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.05 g

Date Analyzed: 09/18/2007 1212 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.95
Barium		140		0.95
Cadmium		ND		0.48
Chromium		160		0.95
Lead		250		0.95
Selenium		ND		1.9
Silver		ND		0.95
Zinc		360		0.95

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26229Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26221Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 1.05 g
Date Analyzed: 09/17/2007 1904 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1538

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.14 0.048

Varian ICP

RL

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-14

 Lab Sample ID:
 720-10820-14
 Date Sampled:
 09/14/2007 1040

 Client Matrix:
 Solid
 Date Received:
 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26253 Instrument ID: Preparation: 3050B Prep Batch: 720-26217 Lab File ID: Dilution: 1.0 Initial Weight/N

Lab File ID: N/A
Initial Weight/Volume: 0.95 g
Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1216 Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		1.1
Barium		68		1.1
Cadmium		ND		0.53
Chromium		270		1.1
Lead		24		1.1
Selenium		ND		2.1
Silver		ND		1.1
Zinc		46		1.1

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26229Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26221Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 09/17/2007 1905 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1538

DryWt Corrected: N

Mercury 0.073 0.048

Result (mg/Kg)

Qualifier

Analyte

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-16

 Lab Sample ID:
 720-10820-15
 Date Sampled:
 09/14/2007 1030

 Client Matrix:
 Solid
 Date Received:
 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26253Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26217Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.05 g

Dilution: 1.0 Initial Weight/Volume: 1.05 g
Date Analyzed: 09/18/2007 1220 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.95
Barium		130		0.95
Cadmium		ND		0.48
Chromium		220		0.95
Lead		310		0.95
Selenium		ND		1.9
Silver		ND		0.95
Zinc		440		0.95

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26229Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26221Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 0.96 g
Date Analyzed: 09/17/2007 1906 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1538

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.13 0.052

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-17

 Lab Sample ID:
 720-10820-16
 Date Sampled:
 09/14/2007
 1035

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26253Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26217Lab File ID:N/ADilution:1.0Initial Weight/Volume:0.99 g

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 09/18/2007 1223 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		2.8		1.0
Barium		130		1.0
Cadmium		ND		0.51
Chromium		87		1.0
Lead		180		1.0
Selenium		ND		2.0
Silver		ND		1.0
Zinc		300		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26229 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g
Date Analyzed: 09/17/2007 1907 Final Weight/Volume: 50 mL

Date Analyzed: 09/17/2007 1907 Final Weight/Volume: 50 mL Date Prepared: 09/17/2007 1538

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.067
 0.050

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-19

 Lab Sample ID:
 720-10820-17
 Date Sampled:
 09/14/2007
 1147

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26253Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26242Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.01 g

Dilution: 1.0 Initial Weight/Volume: 1.01 g
Date Analyzed: 09/18/2007 1621 Final Weight/Volume: 50 mL

Date Prepared: 09/18/2007 0730

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.99
Barium		190		0.99
Cadmium		ND		0.50
Chromium		82		0.99
Lead		340		0.99
Selenium		ND		2.0
Silver		ND		0.99
Zinc		190		0.99

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26229Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26221Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 1.03 g
Date Analyzed: 09/17/2007 1909 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1538

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.29 0.049

Varian ICP

N/A

Client: ERRG Job Number: 720-10820-1

Client Sample ID: PTLF 12IS-20

Lab Sample ID: 720-10820-18 Date Sampled: 09/14/2007 1215 Client Matrix: Solid Date Received: 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26253 Instrument ID: Preparation: 3050B Prep Batch: 720-26242 Lab File ID: Dilution: 1.0 Initial Weight/Volume:

1.02 g Final Weight/Volume: 50 mL Date Analyzed: 09/18/2007 1625

Date Prepared: 09/18/2007 0730

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		0.98
Barium		84		0.98
Cadmium		ND		0.49
Chromium		92		0.98
Lead		33		0.98
Selenium		ND		2.0
Silver		ND		0.98
Zinc		48		0.98

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: **FIMS 100** 7471A Analysis Batch: 720-26229 Instrument ID: Preparation: 7471A Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.97 g Final Weight/Volume: Date Analyzed: 09/17/2007 1910 50 mL

Date Prepared: 09/17/2007 1538

RLAnalyte DryWt Corrected: N Result (mg/Kg) Qualifier Mercury 0.094 0.052

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
Metals		
	F	MS or MSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits

Client: ERRG Job Number: 720-10820-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-26217					
LCS 720-26217/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-26217/3-A	Lab Control Spike Duplicate	Т	Solid	3050B	
MB 720-26217/1-A	Method Blank	T	Solid	3050B	
720-10820-1	PTLF 12IS-1	Т	Solid	3050B	
720-10820-2	PTLF 12IS-2	Т	Solid	3050B	
720-10820-3	PTLF 12IS-3	Т	Solid	3050B	
720-10820-4	PTLF 12IS-4	T	Solid	3050B	
720-10820-5	PTLF 12IS-5	Т	Solid	3050B	
720-10820-6	PTLF 12IS-6	Т	Solid	3050B	
720-10820-7	PTLF 12IS-7	T	Solid	3050B	
720-10820-8	PTLF 12IS-8	Т	Solid	3050B	
720-10820-9	PTLF 12IS-9	T	Solid	3050B	
720-10820-10	PTLF 12IS-10	Т	Solid	3050B	
720-10820-10MS	Matrix Spike	T	Solid	3050B	
720-10820-10MSD	Matrix Spike Duplicate	Т	Solid	3050B	
720-10820-11	PTLF 12IS-11	T	Solid	3050B	
720-10820-12	PTLF 12IS-12	T	Solid	3050B	
720-10820-13	PTLF 12IS-13	T	Solid	3050B	
720-10820-14	PTLF 12IS-14	Т	Solid	3050B	
720-10820-15	PTLF 12IS-16	Т	Solid	3050B	
720-10820-16	PTLF 12IS-17	Т	Solid	3050B	

Client: ERRG Job Number: 720-10820-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-26221					
LCS 720-26221/2-A	Lab Control Spike	T	Solid	7471A	
LCSD 720-26221/3-A	Lab Control Spike Duplicate	T	Solid	7471A	
MB 720-26221/1-A	Method Blank	T	Solid	7471A	
720-10820-1	PTLF 12IS-1	T	Solid	7471A	
720-10820-2	PTLF 12IS-2	T	Solid	7471A	
720-10820-3	PTLF 12IS-3	Т	Solid	7471A	
720-10820-4	PTLF 12IS-4	T	Solid	7471A	
720-10820-5	PTLF 12IS-5	Т	Solid	7471A	
720-10820-6	PTLF 12IS-6	T	Solid	7471A	
720-10820-7	PTLF 12IS-7	T	Solid	7471A	
720-10820-8	PTLF 12IS-8	T	Solid	7471A	
720-10820-9	PTLF 12IS-9	T	Solid	7471A	
720-10820-10	PTLF 12IS-10	T	Solid	7471A	
720-10820-10MS	Matrix Spike	T	Solid	7471A	
720-10820-10MSD	Matrix Spike Duplicate	T	Solid	7471A	
720-10820-11	PTLF 12IS-11	T	Solid	7471A	
720-10820-12	PTLF 12IS-12	Т	Solid	7471A	
720-10820-13	PTLF 12IS-13	T	Solid	7471A	
720-10820-14	PTLF 12IS-14	Т	Solid	7471A	
720-10820-15	PTLF 12IS-16	T	Solid	7471A	
720-10820-16	PTLF 12IS-17	Т	Solid	7471A	
720-10820-17	PTLF 12IS-19	Т	Solid	7471A	
720-10820-18	PTLF 12IS-20	T	Solid	7471A	

Client: ERRG Job Number: 720-10820-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals	One it dample is		One in matrix	Metrou	1 Tep Buten
	•••				
Analysis Batch:720-26		-	0-1:-1	7474 4	700 00004
LCS 720-26221/2-A	Lab Control Spike	T T	Solid	7471A	720-26221
LCSD 720-26221/3-A	Lab Control Spike Duplicate	T	Solid	7471A	720-26221
MB 720-26221/1-A	Method Blank	T	Solid	7471A	720-26221
720-10820-1	PTLF 12IS-1	T	Solid	7471A	720-26221
720-10820-2	PTLF 12IS-2	T -	Solid	7471A	720-26221
720-10820-3	PTLF 12IS-3	T	Solid	7471A	720-26221
720-10820-4	PTLF 12IS-4	T	Solid	7471A	720-26221
720-10820-5	PTLF 12IS-5	Т	Solid	7471A	720-26221
720-10820-6	PTLF 12IS-6	T	Solid	7471A	720-26221
720-10820-7	PTLF 12IS-7	Т	Solid	7471A	720-26221
720-10820-8	PTLF 12IS-8	T	Solid	7471A	720-26221
720-10820-9	PTLF 12IS-9	T	Solid	7471A	720-26221
720-10820-10	PTLF 12IS-10	T	Solid	7471A	720-26221
720-10820-10MS	Matrix Spike	T	Solid	7471A	720-26221
720-10820-10MSD	Matrix Spike Duplicate	Т	Solid	7471A	720-26221
720-10820-11	PTLF 12IS-11	T	Solid	7471A	720-26221
720-10820-12	PTLF 12IS-12	T	Solid	7471A	720-26221
720-10820-13	PTLF 12IS-13	T	Solid	7471A	720-26221
720-10820-14	PTLF 12IS-14	Т	Solid	7471A	720-26221
720-10820-15	PTLF 12IS-16	Т	Solid	7471A	720-26221
720-10820-16	PTLF 12IS-17	T	Solid	7471A	720-26221
720-10820-17	PTLF 12IS-19	T	Solid	7471A	720-26221
720-10820-18	PTLF 12IS-20	Т	Solid	7471A	720-26221
Prep Batch: 720-26242					
LCS 720-26242/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-26242/3-A	Lab Control Spike Duplicate	Т	Solid	3050B	
MB 720-26242/1-A	Method Blank	Т	Solid	3050B	
720-10820-17	PTLF 12IS-19	Ť	Solid	3050B	
720-10820-17MS	Matrix Spike	T	Solid	3050B	
720-10820-17MSD	Matrix Spike Duplicate	T.	Solid	3050B	
720-10820-18	PTLF 12IS-20	Ť	Solid	3050B	
. 20 . 3020 . 10	1 1210 20	•	Cond	3300D	

Client: ERRG Job Number: 720-10820-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:720-26	253				
LCS 720-26217/2-A	Lab Control Spike	Т	Solid	6010B	720-26217
LCSD 720-26217/3-A	Lab Control Spike Duplicate	Т	Solid	6010B	720-26217
MB 720-26217/1-A	Method Blank	Т	Solid	6010B	720-26217
LCS 720-26242/2-A	Lab Control Spike	T	Solid	6010B	720-26242
LCSD 720-26242/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-26242
MB 720-26242/1-A	Method Blank	T	Solid	6010B	720-26242
720-10820-1	PTLF 12IS-1	T	Solid	6010B	720-26217
720-10820-2	PTLF 12IS-2	T	Solid	6010B	720-26217
720-10820-3	PTLF 12IS-3	T	Solid	6010B	720-26217
720-10820-4	PTLF 12IS-4	T	Solid	6010B	720-26217
720-10820-5	PTLF 12IS-5	T	Solid	6010B	720-26217
720-10820-6	PTLF 12IS-6	T	Solid	6010B	720-26217
720-10820-7	PTLF 12IS-7	T	Solid	6010B	720-26217
720-10820-8	PTLF 12IS-8	T	Solid	6010B	720-26217
720-10820-9	PTLF 12IS-9	Т	Solid	6010B	720-26217
720-10820-10	PTLF 12IS-10	T	Solid	6010B	720-26217
720-10820-10MS	Matrix Spike	Т	Solid	6010B	720-26217
720-10820-10MSD	Matrix Spike Duplicate	Т	Solid	6010B	720-26217
720-10820-11	PTLF 12IS-11	Т	Solid	6010B	720-26217
720-10820-12	PTLF 12IS-12	Т	Solid	6010B	720-26217
720-10820-13	PTLF 12IS-13	Т	Solid	6010B	720-26217
720-10820-14	PTLF 12IS-14	Т	Solid	6010B	720-26217
720-10820-15	PTLF 12IS-16	Т	Solid	6010B	720-26217
720-10820-16	PTLF 12IS-17	Т	Solid	6010B	720-26217
720-10820-17	PTLF 12IS-19	Ť	Solid	6010B	720-26242
720-10820-17MS	Matrix Spike	Т	Solid	6010B	720-26242
720-10820-17MSD	Matrix Spike Duplicate	Ť	Solid	6010B	720-26242
720-10820-18	PTLF 12IS-20	Ť	Solid	6010B	720-26242

Report Basis

T = Total

Client: ERRG Job Number: 720-10820-1

Method Blank - Batch: 720-26217 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-26217/1-A Analysis Batch: 720-26253 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26217 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/18/2007 1037 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1500

Analyte	Result Qual	RL
Arsenic	ND	1.0
Barium	ND	1.0
Cadmium	ND	0.50
Chromium	ND	1.0
Lead	ND	1.0
Selenium	ND	2.0
Silver	ND	1.0
7inc	ND	1.0

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-26217 Preparation: 3050B

LCS Lab Sample ID: LCS 720-26217/2-A Analysis Batch: 720-26253 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26217 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/18/2007 1040 Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1040 Final Weight/Volume: 50 mL Date Prepared: 09/17/2007 1500

LCSD Lab Sample ID: LCSD 720-26217/3-A Analysis Batch: 720-26253 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26217 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/18/2007 1044 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1500

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit Arsenic 94 94 80 - 120 1 20 80 - 120 Barium 87 87 20 1 80 - 120 Cadmium 90 91 1 20 Chromium 92 93 80 - 120 1 20 Lead 90 91 80 - 120 1 20 Selenium 97 98 80 - 120 1 20 Silver 89 90 80 - 120 1 20 Zinc 88 89 80 - 120 20 1

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10820-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-26217 Method: 6010B Preparation: 3050B

MS Lab Sample ID: Client Matrix:

720-10820-10 Solid

Analysis Batch: 720-26253

Instrument ID: Varian ICP

Dilution:

1.0

Prep Batch: 720-26217

Lab File ID: N/A

Date Analyzed: Date Prepared:

09/18/2007 1048 09/17/2007 1500 Initial Weight/Volume: 1.02 g Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10820-10

Client Matrix:

Solid

Analysis Batch: 720-26253 Prep Batch: 720-26217

Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

1.0 Dilution:

Date Analyzed: 09/18/2007 1052 Date Prepared: 09/17/2007 1500

	<u>%</u>	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	66	69	75 - 125	6	20	F	F
Barium	75	78	75 - 125	3	20		
Cadmium	61	64	75 - 125	7	20	F	F
Chromium	72	72	75 - 125	1	20	F	F
Lead	58	86	75 - 125	25	20	F	F
Selenium	67	71	75 - 125	8	20	F	F
Silver	65	67	75 - 125	4	20	F	F
Zinc	63	75	75 - 125	12	20	F	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10820-1

Method Blank - Batch: 720-26242 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-26242/1-A Analysis Batch: 720-26253 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26242 Lab File ID: N/A

Units: mg/Kg Dilution: 1.0 Initial Weight/Volume: 1 g Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1602 Date Prepared: 09/18/2007 0730

Analyte	Result Qu	ıal RL
Arsenic	ND	1.0
Barium	ND	1.0
Cadmium	ND	0.50
Chromium	ND	1.0
Lead	ND	1.0
Selenium	ND	2.0
Silver	ND	1.0
Zinc	ND	1.0

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-26242 Preparation: 3050B

Instrument ID: Varian ICP LCS Lab Sample ID: LCS 720-26242/2-A Analysis Batch: 720-26253

Client Matrix: Solid Prep Batch: 720-26242 Lab File ID: N/A

Dilution: Initial Weight/Volume: 1.0 Units: mg/Kg g Date Analyzed: 09/18/2007 1605 Final Weight/Volume: 50 mL

Date Prepared: 09/18/2007 0730

LCSD Lab Sample ID: LCSD 720-26242/3-A Analysis Batch: 720-26253 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26242 Lab File ID:

Dilution: Units: mg/Kg Initial Weight/Volume: 1 g 1 0 Date Analyzed: 09/18/2007 1609 Final Weight/Volume: 50 mL Date Prepared: 09/18/2007 0730

% Rec. LCS **LCSD RPD** RPD Limit LCS Qual LCSD Qual Analyte Limit Arsenic 96 96 80 - 120 0 20 80 - 120 20 Barium 90 89 0 94 80 - 120 Cadmium 94 0 20 Chromium 96 96 80 - 120 0 20 Lead 93 93 80 - 120 0 20 Selenium 102 102 80 - 120 0 20 Silver 107 106 80 - 120 0 20 Zinc 92 92 80 - 120 0 20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10820-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-26242

Method: 6010B Preparation: 3050B

MS Lab Sample ID: 720-10820-17

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/18/2007 1613 Date Prepared: 09/18/2007 0730 Analysis Batch: 720-26253

Prep Batch: 720-26242

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 1.03 g Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10820-17

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/18/2007 1617 Date Prepared: 09/18/2007 0730 Analysis Batch: 720-26253 Instrument ID: Varian ICP Prep Batch: 720-26242 Lab File ID: N/A

Lab File ID: N/A
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 50 mL

	<u>% R</u>	<u>lec.</u>					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	73	74	75 - 125	0	20	F	F
Barium	43	52	75 - 125	6	20	F	F
Cadmium	68	68	75 - 125	1	20	F	F
Chromium	74	77	75 - 125	2	20	F	
Lead	59	22	75 - 125	18	20	F	F
Selenium	75	76	75 - 125	0	20		
Silver	84	82	75 - 125	3	20		
Zinc	47	59	75 - 125	8	20	F	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10820-1

Method Blank - Batch: 720-26221 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-26221/1-A Analysis Batch: 720-26229 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26221 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/17/2007 1740

Date Prepared: 09/17/2007 1538

Final Weight/Volume: 50 mL

Analyte Result Qual RL

Mercury ND 0.050

Lab Control Spike/ Method: 7471A
Lab Control Spike Duplicate Recovery Report - Batch: 720-26221 Preparation: 7471A

LCS Lab Sample ID: LCS 720-26221/2-A Analysis Batch: 720-26229 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/17/2007 1742 Final Weight/Volume: 50 mL Date Prepared: 09/17/2007 1538

LCSD Lab Sample ID: LCSD 720-26221/3-A Analysis Batch: 720-26229 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26221 Lab File ID: N/A

113

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/17/2007 1743 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1538

112

Analyte CS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual

85 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Mercury

Client: ERRG Job Number: 720-10820-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-26221 Preparation: 7471A

MS Lab Sample ID: 720-10820-10 Analysis Batch: 720-26229 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.95 g
Date Analyzed: 09/17/2007 1744 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10820-10 Analysis Batch: 720-26229 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26221 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 09/17/2007 1745 Final Weight/Volume: 50 mL

% Rec.
Analyte MS MSD Limit RPD RPD Limit MS Qual MSD Qual

Mercury 105 99 85 - 115 12 20

Date Prepared:

Date Prepared:

09/17/2007 1538

09/17/2007 1538

Engineering / Remediation Resources Group, Inc.

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Page 1 of 2-

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Engineering / Remediation Resources Group, Inc. 185 Mason Circle, Suite A

Concord, CA 94520 Phone: (925) 969-0750

770 - 100 7 Pho.

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10820-1

Login Number: 10820

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10820-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/19/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10820-2

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 26191 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10820-1	PTLF 12IS-1				
<i>TCLP</i> Lead		4.8	0.50	mg/L	6010B
720-10820-2	PTLF 12IS-2				
STLC Citrate Lead		5.0	0.50	mg/L	6010B
720-10820-3	PTLF 12IS-3				
STLC Citrate Lead Chromium		41 0.62	0.50 0.50	mg/L mg/L	6010B 6010B
<i>TCLP</i> Lead		0.75	0.50	mg/L	6010B
720-10820-4	PTLF 12IS-4				
STLC Citrate Lead Chromium		33 0.63	0.50 0.50	mg/L mg/L	6010B 6010B
<i>TCLP</i> Lead		1.1	0.50	mg/L	6010B
720-10820-5	PTLF 12IS-5				
STLC Citrate Lead		4.4	0.50	mg/L	6010B
720-10820-6	PTLF 12IS-6				
<i>TCLP</i> Lead		0.77	0.50	mg/L	6010B
720-10820-7	PTLF 12IS-7				
STLC Citrate Lead		55	0.50	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10820-8	PTLF 12IS-8					
STLC Citrate Lead Chromium		28 0.67	0.50 0.50	mg/L mg/L	6010B 6010B	
<i>TCLP</i> Lead		1.1	0.50	mg/L	6010B	
720-10820-9	PTLF 12IS-9					
STLC Citrate Lead		3.2	0.50	mg/L	6010B	
720-10820-10	PTLF 12IS-10					
STLC Citrate Lead		7.8	0.50	mg/L	6010B	
720-10820-11	PTLF 12IS-11					
STLC Citrate Lead Chromium		28 0.83	0.50 0.50	mg/L mg/L	6010B 6010B	
<i>TCLP</i> Lead		1.6	0.50	mg/L	6010B	
720-10820-12	PTLF 12IS-12					
STLC Citrate Lead Chromium		18 0.63	0.50 0.50	mg/L mg/L	6010B 6010B	
TCLP Lead		1.2	0.50	mg/L	6010B	
720-10820-13	PTLF 12IS-13					
STLC Citrate Lead Chromium		19 1.1	0.50 0.50	mg/L mg/L	6010B 6010B	
<i>TCLP</i> Lead		0.60	0.50	mg/L	6010B	

EXECUTIVE SUMMARY - Detections

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10820-14	PTLF 12IS-14					
STLC Citrate Lead Chromium		1.1 0.98	0.50 0.50	mg/L mg/L	6010B 6010B	
720-10820-15	PTLF 12IS-16					
STLC Citrate Lead Chromium		970 1.8	5.0 0.50	mg/L mg/L	6010B 6010B	
720-10820-16	PTLF 12IS-17					
STLC Citrate Lead Chromium		11 0.93	0.50 0.50	mg/L mg/L	6010B 6010B	
<i>TCLP</i> Lead		0.68	0.50	mg/L	6010B	
720-10820-17	PTLF 12IS-19					
STLC Citrate Lead		19	0.50	mg/L	6010B	
720-10820-18	PTLF 12IS-20					
STLC Citrate Lead		1.7	0.50	mg/L	6010B	

METHOD SUMMARY

Client: ERRG Job Number: 720-10820-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10820-1	PTLF 12IS-1	Solid	09/14/2007 1220	09/14/2007 1440
720-10820-2	PTLF 12IS-2	Solid	09/14/2007 1200	09/14/2007 1440
720-10820-3	PTLF 12IS-3	Solid	09/14/2007 1155	09/14/2007 1440
720-10820-4	PTLF 12IS-4	Solid	09/14/2007 1157	09/14/2007 1440
720-10820-5	PTLF 12IS-5	Solid	09/14/2007 1150	09/14/2007 1440
720-10820-6	PTLF 12IS-6	Solid	09/14/2007 1225	09/14/2007 1440
720-10820-7	PTLF 12IS-7	Solid	09/14/2007 1125	09/14/2007 1440
720-10820-8	PTLF 12IS-8	Solid	09/14/2007 1130	09/14/2007 1440
720-10820-9	PTLF 12IS-9	Solid	09/14/2007 1115	09/14/2007 1440
720-10820-10	PTLF 12IS-10	Solid	09/14/2007 1100	09/14/2007 1440
720-10820-11	PTLF 12IS-11	Solid	09/14/2007 1055	09/14/2007 1440
720-10820-12	PTLF 12IS-12	Solid	09/14/2007 1110	09/14/2007 1440
720-10820-13	PTLF 12IS-13	Solid	09/14/2007 1055	09/14/2007 1440
720-10820-14	PTLF 12IS-14	Solid	09/14/2007 1040	09/14/2007 1440
720-10820-15	PTLF 12IS-16	Solid	09/14/2007 1030	09/14/2007 1440
720-10820-16	PTLF 12IS-17	Solid	09/14/2007 1035	09/14/2007 1440
720-10820-17	PTLF 12IS-19	Solid	09/14/2007 1147	09/14/2007 1440
720-10820-18	PTLF 12IS-20	Solid	09/14/2007 1215	09/14/2007 1440

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-1

 Lab Sample ID:
 720-10820-1
 Date Sampled:
 09/14/2007
 1220

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:6010BAnalysis Batch: 720-26325Instrument ID:Varian ICPPreparation:3010APrep Batch: 720-26295Lab File ID:N/A

Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL

Date Analyzed: 09/19/2007 0857 Final Weight/Volume: 50 mL

Date Prepared: 09/18/2007 1547

Date Prepared: 09/18/2007 1547 Date Leached: 09/17/2007 2134

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 4.8
 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-2

 Lab Sample ID:
 720-10820-2
 Date Sampled:
 09/14/2007
 1200

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-26325 Varian ICP Method: Instrument ID: Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0901 Date Prepared: 09/18/2007 1547 Date Leached: 09/17/2007 2134

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 ND
 0.50

Final Weight/Volume:

50 mL

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:6010BAnalysis Batch: 720-26276Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26188Lab File ID:N/ADilution:1.0Leachate Batch: 720-26169Initial Weight/Volume:5 mL

Date Analyzed: 09/18/2007 1559

Date Prepared: 09/17/2007 1113

Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 5.0
 0.50

 Chromium
 ND
 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-3

 Lab Sample ID:
 720-10820-3
 Date Sampled:
 09/14/2007
 1155

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-26325 Method: Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0905 Date Prepared: 09/18/2007 1547 Date Leached: 09/17/2007 2134

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 0.75 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: Analysis Batch: 720-26276 Varian ICP 6010B Instrument ID: 3005A Prep Batch: 720-26191 Lab File ID: N/A Preparation: Initial Weight/Volume: Dilution: 1.0 Leachate Batch: 720-26169 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1419 Date Prepared: 09/17/2007 1138 Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 41
 0.50

Chromium 0.62 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-4

 Lab Sample ID:
 720-10820-4
 Date Sampled:
 09/14/2007
 1157

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-26325 Method: Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0917 Date Prepared: 09/18/2007 1547 Date Leached: 09/17/2007 2134

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 1.1 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-26276Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26191Lab File ID:N/ADilution:1.0Leachate Batch: 720-26169Initial Weight/Volume:5 mL

Date Analyzed: 09/18/2007 1423
Date Prepared: 09/17/2007 1138
Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 33
 0.50

 Chromium
 0.63
 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-5

 Lab Sample ID:
 720-10820-5
 Date Sampled:
 09/14/2007
 1150

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: 6010B Analysis Batch: 720-26276 Instrument ID: Varian ICP 3005A Preparation: Prep Batch: 720-26191 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26169 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1426 Date Prepared: 09/17/2007 1138 Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 4.4
 0.50

 Chromium
 ND
 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-6

 Lab Sample ID:
 720-10820-6
 Date Sampled:
 09/14/2007 1225

 Client Matrix:
 Solid
 Date Received:
 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-26325 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0924 Date Prepared: 09/18/2007 1547 Date Leached: 09/17/2007 2134

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 0.77 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-7

 Lab Sample ID:
 720-10820-7
 Date Sampled:
 09/14/2007
 1125

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-26325 Method: Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0928
Date Prepared: 09/18/2007 1547
Date Leached: 09/17/2007 2134

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 ND
 0.50

Final Weight/Volume:

50 mL

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:6010BAnalysis Batch: 720-26276Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26191Lab File ID:N/ADilution:1.0Leachate Batch: 720-26169Initial Weight/Volume:5 mL

Date Analyzed: 09/18/2007 1434 Date Prepared: 09/17/2007 1138 Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 55
 0.50

 Chromium
 ND
 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-8

 Lab Sample ID:
 720-10820-8
 Date Sampled:
 09/14/2007
 1130

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-26325 Method: Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0931
Date Prepared: 09/18/2007 1547
Date Leached: 09/17/2007 2134

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 1.1 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-26276Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26191Lab File ID:N/ADilution:1.0Leachate Batch: 720-26169Initial Weight/Volume:5 mL

Date Analyzed: 09/18/2007 1437 Date Prepared: 09/17/2007 1138 Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 28
 0.50

 Chromium
 0.67
 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-9

 Lab Sample ID:
 720-10820-9
 Date Sampled:
 09/14/2007
 1115

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: 6010B Analysis Batch: 720-26276 Instrument ID: Varian ICP 3005A Preparation: Prep Batch: 720-26191 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26169 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1453
Date Prepared: 09/17/2007 1138
Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 3.2
 0.50

 Chromium
 ND
 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-10

 Lab Sample ID:
 720-10820-10

 Client Matrix:
 Solid

 Date Sampled:
 09/14/2007 1100

 Date Received:
 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-26325 Method: Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0938

Date Prepared: 09/18/2007 1547

Date Leached: 09/17/2007 2134

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

 Lead
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method:6010BAnalysis Batch: 720-26276Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26191Lab File ID:N/ADilution:1.0Leachate Batch: 720-26169Initial Weight/Volume:5 mL

Date Analyzed: 09/18/2007 1507 Date Prepared: 09/17/2007 1138 Date Leached: 09/14/2007 2005

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL
Lead 7.8 0.50

Final Weight/Volume:

50 mL

Chromium ND 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-11

 Lab Sample ID:
 720-10820-11
 Date Sampled:
 09/14/2007 1055

 Client Matrix:
 Solid
 Date Received:
 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-26325 Method: Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0942 Date Prepared: 09/18/2007 1547 Date Leached: 09/17/2007 2134

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 1.6 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-26276Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26191Lab File ID:N/ADilution:1.0Leachate Batch: 720-26169Initial Weight/Volume:5 mL

Date Analyzed: 09/18/2007 1510
Date Prepared: 09/17/2007 1138
Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 28
 0.50

 Chromium
 0.83
 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-12

 Lab Sample ID:
 720-10820-12
 Date Sampled:
 09/14/2007
 1110

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-26325 Method: Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0945
Date Prepared: 09/18/2007 1547
Date Leached: 09/17/2007 2134

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 1.2 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: Analysis Batch: 720-26276 Varian ICP 6010B Instrument ID: 3005A Prep Batch: 720-26191 Lab File ID: N/A Preparation: Initial Weight/Volume: Dilution: 1.0 Leachate Batch: 720-26169 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1514 Date Prepared: 09/17/2007 1138 Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 18
 0.50

 Chromium
 0.63
 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-13

 Lab Sample ID:
 720-10820-13
 Date Sampled:
 09/14/2007 1055

 Client Matrix:
 Solid
 Date Received:
 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-26325 Method: Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0949
Date Prepared: 09/18/2007 1547
Date Leached: 09/17/2007 2134

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 0.60 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-26276Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26191Lab File ID:N/ADilution:1.0Leachate Batch: 720-26169Initial Weight/Volume:5 mL

Date Analyzed: 09/18/2007 1518

Date Prepared: 09/17/2007 1138

Date Leached: 09/14/2007 2005

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL
Lead 19 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-14

 Lab Sample ID:
 720-10820-14
 Date Sampled:
 09/14/2007
 1040

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: 6010B Analysis Batch: 720-26276 Instrument ID: Varian ICP 3005A Preparation: Prep Batch: 720-26191 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26169 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1521
Date Prepared: 09/17/2007 1138
Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 1.1
 0.50

 Chromium
 0.98
 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-16

 Lab Sample ID:
 720-10820-15
 Date Sampled:
 09/14/2007
 1030

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Method: Analysis Batch: 720-26325 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 1008
Date Prepared: 09/18/2007 1547
Date Leached: 09/17/2007 2134

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

 Lead
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Varian ICP Method: 6010B Analysis Batch: 720-26276 Instrument ID: Prep Batch: 720-26191 N/A Preparation: 3005A Lab File ID: Leachate Batch: 720-26169 Dilution: 1.0 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1525

Date Prepared: 09/17/2007 1138

Date Leached: 09/14/2007 2005

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Chromium 1.8 0.50

Method: Analysis Batch: 720-26276 Instrument ID: Varian ICP 6010B Preparation: 3005A Prep Batch: 720-26191 Lab File ID: N/A Dilution: Leachate Batch: 720-26169 Initial Weight/Volume: 5 mL 10 Date Analyzed: 09/18/2007 1631 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1138 Date Leached: 09/14/2007 2005

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 970 5.0

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-17

 Lab Sample ID:
 720-10820-16
 Date Sampled:
 09/14/2007 1035

 Client Matrix:
 Solid
 Date Received:
 09/14/2007 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-26325 Method: Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 1012 Date Prepared: 09/18/2007 1547 Date Leached: 09/17/2007 2134

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

Lead 0.68 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

0.50

Method:6010BAnalysis Batch: 720-26276Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26191Lab File ID:N/ADilution:1.0Leachate Batch: 720-26169Initial Weight/Volume:5 mL

Date Analyzed: 09/18/2007 1528
Date Prepared: 09/17/2007 1138
Date Leached: 09/14/2007 2005

Chromium

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL
Lead 11 0.50

0.93

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-19

 Lab Sample ID:
 720-10820-17
 Date Sampled:
 09/14/2007
 1147

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Analysis Batch: 720-26325 Method: Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 1015 Date Prepared: 09/18/2007 1547 Date Leached: 09/17/2007 2134

Analyte DryWt Corrected: N Result (mg/L) Qualifier RL

 Lead
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-26276Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26191Lab File ID:N/ADilution:1.0Leachate Batch: 720-26169Initial Weight/Volume:5 mL

Date Analyzed: 09/18/2007 1532 Date Prepared: 09/17/2007 1138 Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 19
 0.50

 Chromium
 ND
 0.50

Client: ERRG Job Number: 720-10820-2

Client Sample ID: PTLF 12IS-20

 Lab Sample ID:
 720-10820-18
 Date Sampled:
 09/14/2007
 1215

 Client Matrix:
 Solid
 Date Received:
 09/14/2007
 1440

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Method: 6010B Analysis Batch: 720-26276 Instrument ID: Varian ICP 3005A Preparation: Prep Batch: 720-26191 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26169 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1536 Date Prepared: 09/17/2007 1138 Date Leached: 09/14/2007 2005

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 1.7
 0.50

 Chromium
 ND
 0.50

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ERRG Job Number: 720-10820-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
	Olient Gample ID	240.0	Onent Matrix	Metriod	i iep bateii
Metals					
Prep Batch: 720-26127					
LCS 720-26127/2-B	Lab Control Spike	С	Solid	CA WET Citrate	
LCSD 720-26127/3-D	Lab Control Spike Duplicate	С	Solid	CA WET Citrate	
MB 720-26127/1-B	Method Blank	С	Solid	CA WET Citrate	
Prep Batch: 720-26169					
LCS 720-26169/22-C	Lab Control Spike	С	Solid	CA WET Citrate	
LCSD 720-26169/23-C	Lab Control Spike Duplicate	С	Solid	CA WET Citrate	
MB 720-26169/1-C	Method Blank	С	Solid	CA WET Citrate	
720-10820-2	PTLF 12IS-2	С	Solid	CA WET Citrate	
720-10820-3	PTLF 12IS-3	С	Solid	CA WET Citrate	
720-10820-4	PTLF 12IS-4	С	Solid	CA WET Citrate	
720-10820-5	PTLF 12IS-5	С	Solid	CA WET Citrate	
720-10820-7	PTLF 12IS-7	С	Solid	CA WET Citrate	
720-10820-8	PTLF 12IS-8	С	Solid	CA WET Citrate	
720-10820-9	PTLF 12IS-9	С	Solid	CA WET Citrate	
720-10820-10	PTLF 12IS-10	С	Solid	CA WET Citrate	
720-10820-11	PTLF 12IS-11	С	Solid	CA WET Citrate	
720-10820-12	PTLF 12IS-12	С	Solid	CA WET Citrate	
720-10820-13	PTLF 12IS-13	С	Solid	CA WET Citrate	
720-10820-14	PTLF 12IS-14	С	Solid	CA WET Citrate	
720-10820-15	PTLF 12IS-16	С	Solid	CA WET Citrate	
720-10820-16	PTLF 12IS-17	C	Solid	CA WET Citrate	
720-10820-17	PTLF 12IS-19	C	Solid	CA WET Citrate	
720-10820-18	PTLF 12IS-20	С	Solid	CA WET Citrate	
Prep Batch: 720-26188					
LCS 720-26127/2-B	Lab Control Spike	С	Solid	3005A	720-26127
LCSD 720-26127/3-D	Lab Control Spike Duplicate	C	Solid	3005A	720-26127
MB 720-26127/1-B	Method Blank	Č	Solid	3005A	720-26127
720-10511-A-5-M MS	Matrix Spike	C	Solid	3005A	
720-10511-A-5-N MSD	Matrix Spike Duplicate	Č	Solid	3005A	
720-10820-2	PTLF 12IS-2	Ċ	Solid	3005A	720-26169

Client: ERRG Job Number: 720-10820-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals	Choin Gampio is		Onone matrix	motriou	1 Top Baton
Prep Batch: 720-26191 LCS 720-26169/22-C	Lab Control Spike	С	Solid	3005A	720-26169
LCSD 720-26169/23-C	Lab Control Spike Duplicate	C	Solid	3005A 3005A	720-26169
MB 720-26169/1-C	Method Blank	C	Solid	3005A 3005A	720-26169
720-10820-3MS	Matrix Spike	C	Solid	3005A 3005A	720-20109
720-10820-3MSD		C	Solid	3005A 3005A	
720-10820-3W3D	Matrix Spike Duplicate PTLF 12IS-3	C	Solid	3005A 3005A	720-26169
720-10820-3	PTLF 1213-3 PTLF 121S-4	C	Solid	3005A 3005A	
		C			720-26169
720-10820-5	PTLF 12IS-5	C	Solid	3005A	720-26169
720-10820-7	PTLF 12IS-7	C	Solid	3005A	720-26169
720-10820-8	PTLF 12IS-8	С	Solid	3005A	720-26169
720-10820-9	PTLF 12IS-9	С	Solid	3005A	720-26169
720-10820-10	PTLF 12IS-10	С	Solid	3005A	720-26169
720-10820-11	PTLF 12IS-11	С	Solid	3005A	720-26169
720-10820-12	PTLF 12IS-12	С	Solid	3005A	720-26169
720-10820-13	PTLF 12IS-13	С	Solid	3005A	720-26169
720-10820-14	PTLF 12IS-14	С	Solid	3005A	720-26169
720-10820-15	PTLF 12IS-16	С	Solid	3005A	720-26169
720-10820-16	PTLF 12IS-17	С	Solid	3005A	720-26169
720-10820-17	PTLF 12IS-19	С	Solid	3005A	720-26169
720-10820-18	PTLF 12IS-20	С	Solid	3005A	720-26169
Analysis Batch:720-262	10				
LCS 720-26127/2-B	Lab Control Spike	С	Solid	6010B	720-26188
LCSD 720-26127/3-D	Lab Control Spike Duplicate	С	Solid	6010B	720-26188
MB 720-26127/1-B	Method Blank	С	Solid	6010B	720-26188
Prep Batch: 720-26237					
LCS 720-26237/2-B	Lab Control Spike	Р	Solid	1311	
LCSD 720-26237/3-B	Lab Control Spike Duplicate	Р	Solid	1311	
MB 720-26237/1-B	Method Blank	Р	Solid	1311	
720-10820-1	PTLF 12IS-1	Р	Solid	1311	
720-10820-2	PTLF 12IS-2	Р	Solid	1311	
720-10020-2	PTLF 12IS-3	r P	Solid	1311	
720-10020-3	PTLF 12IS-4	r P	Solid	1311	
720-10020-4	PTLF 12IS-6	P	Solid	1311	
720-10820-7	PTLF 12IS-7	P	Solid	1311	
720-10820-7	PTLF 12IS-7 PTLF 12IS-8	P	Solid	1311	
720-10820-0	PTLF 1213-0 PTLF 12IS-10	P	Solid	1311	
720-10820-10	PTLF 12IS-10 PTLF 12IS-11	P P	Solid	1311	
720-10820-12	PTLF 12IS-12	Р	Solid	1311	
720-10820-13	PTLF 12IS-13	P	Solid	1311	
720-10820-15	PTLF 12IS-16	Р	Solid	1311	
720-10820-16	PTLF 12IS-17	Р	Solid	1311	
720-10820-17	PTLF 12IS-19	Р	Solid	1311	

Client: ERRG Job Number: 720-10820-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals	·				·
Analysis Batch:720-26276					
LCS 720-26169/22-C	Lab Control Spike	С	Solid	6010B	720-26191
LCSD 720-26169/23-C	Lab Control Spike Duplicate	C	Solid	6010B	720-26191
MB 720-26169/1-C	Method Blank	Ċ	Solid	6010B	720-26191
720-10511-A-5-M MS	Matrix Spike	Ċ	Solid	6010B	720-26188
720-10511-A-5-N MSD	Matrix Spike Duplicate	Ċ	Solid	6010B	720-26188
720-10820-2	PTLF 12IS-2	Ċ	Solid	6010B	720-26188
720-10820-3	PTLF 12IS-3	Č	Solid	6010B	720-26191
720-10820-3MS	Matrix Spike	Č	Solid	6010B	720-26191
720-10820-3MSD	Matrix Spike Duplicate	Č	Solid	6010B	720-26191
720-10820-4	PTLF 12IS-4	Č	Solid	6010B	720-26191
720-10820-5	PTLF 12IS-5	Č	Solid	6010B	720-26191
720-10820-7	PTLF 12IS-7	C	Solid	6010B	720-26191
720-10820-8	PTLF 12IS-8	C	Solid	6010B	720-26191
720-10820-9	PTLF 12IS-9	C	Solid	6010B	720-26191
720-10820-10	PTLF 12IS-10	C	Solid	6010B	720-26191
720-10820-10	PTLF 12IS-10	C	Solid	6010B	720-26191
720-10820-11	PTLF 12IS-11	C	Solid	6010B	720-26191
720-10820-12	PTLF 12IS-12 PTLF 12IS-13	C	Solid	6010B	720-26191
		C			720-26191
720-10820-14	PTLF 12IS-14	C	Solid	6010B	
720-10820-15	PTLF 12IS-16		Solid	6010B	720-26191
720-10820-16	PTLF 12IS-17	С	Solid	6010B	720-26191
720-10820-17	PTLF 12IS-19	C C	Solid Solid	6010B	720-26191
720-10820-18	PTLF 12IS-20	C	Solid	6010B	720-26191
Prep Batch: 720-26295					
LCS 720-26237/2-B	Lab Control Spike	Р	Solid	3010A	720-26237
LCSD 720-26237/3-B	Lab Control Spike Duplicate	Р	Solid	3010A	720-26237
MB 720-26237/1-B	Method Blank	Р	Solid	3010A	720-26237
720-10820-1MS	Matrix Spike	Р	Solid	3010A	
720-10820-1MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10820-1	PTLF 12IS-1	Р	Solid	3010A	720-26237
720-10820-2	PTLF 12IS-2	Р	Solid	3010A	720-26237
720-10820-3	PTLF 12IS-3	Р	Solid	3010A	720-26237
720-10820-4	PTLF 12IS-4	Р	Solid	3010A	720-26237
720-10820-6	PTLF 12IS-6	Р	Solid	3010A	720-26237
720-10820-7	PTLF 12IS-7	Р	Solid	3010A	720-26237
720-10820-8	PTLF 12IS-8	Р	Solid	3010A	720-26237
720-10820-10	PTLF 12IS-10	Р	Solid	3010A	720-26237
720-10820-11	PTLF 12IS-11	Р	Solid	3010A	720-26237
720-10820-12	PTLF 12IS-12	P	Solid	3010A	720-26237
720-10820-13	PTLF 12IS-13	P	Solid	3010A	720-26237
720-10820-15	PTLF 12IS-16	P	Solid	3010A	720-26237
720-10820-16	PTLF 12IS-17	Р	Solid	3010A	720-26237

Client: ERRG Job Number: 720-10820-2

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:720-26	325				
LCS 720-26237/2-B	Lab Control Spike	Р	Solid	6010B	720-26295
LCSD 720-26237/3-B	Lab Control Spike Duplicate	Р	Solid	6010B	720-26295
MB 720-26237/1-B	Method Blank	Р	Solid	6010B	720-26295
720-10820-1	PTLF 12IS-1	Р	Solid	6010B	720-26295
720-10820-1MS	Matrix Spike	Р	Solid	6010B	720-26295
720-10820-1MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-26295
720-10820-2	PTLF 12IS-2	Р	Solid	6010B	720-26295
720-10820-3	PTLF 12IS-3	Р	Solid	6010B	720-26295
720-10820-4	PTLF 12IS-4	Р	Solid	6010B	720-26295
720-10820-6	PTLF 12IS-6	Р	Solid	6010B	720-26295
720-10820-7	PTLF 12IS-7	Р	Solid	6010B	720-26295
720-10820-8	PTLF 12IS-8	Р	Solid	6010B	720-26295
720-10820-10	PTLF 12IS-10	Р	Solid	6010B	720-26295
720-10820-11	PTLF 12IS-11	Р	Solid	6010B	720-26295
720-10820-12	PTLF 12IS-12	Р	Solid	6010B	720-26295
720-10820-13	PTLF 12IS-13	Р	Solid	6010B	720-26295
720-10820-15	PTLF 12IS-16	Р	Solid	6010B	720-26295
720-10820-16	PTLF 12IS-17	Р	Solid	6010B	720-26295
720-10820-17	PTLF 12IS-19	Р	Solid	6010B	720-26295

Report Basis

C = STLC Citrate

P = TCLP

Client: ERRG Job Number: 720-10820-2

Method Blank - Batch: 720-26188

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

Lab Sample ID: MB 720-26127/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/17/2007 1421 Date Prepared: 09/17/2007 1113

Date Leached: 09/14/2007 1238

Analysis Batch: 720-26210 Prep Batch: 720-26188

Leachate Batch: 720-26127

Units: mg/L

Lab File ID: N/A Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-26188

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

5 mL

50 mL

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume:

LCS Lab Sample ID: LCS 720-26127/2-B

Client Matrix: Solid

Dilution: 1.0 09/17/2007 1425

Date Analyzed: Date Prepared:

09/17/2007 1113 Date Leached: 09/14/2007 1238

LCSD Lab Sample ID: LCSD 720-26127/3-D Solid

Client Matrix: Dilution: 1.0

Date Analyzed:

Date Prepared:

09/17/2007 1429 09/17/2007 1113

Date Leached: 09/14/2007 1238 Analysis Batch: 720-26210

Prep Batch: 720-26188

Units: mg/L

Leachate Batch: 720-26127

Analysis Batch: 720-26210 Prep Batch: 720-26188

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-26127

% Rec. RPD Limit LCS Qual LCSD Qual Analyte LCS LCSD Limit **RPD** Lead 94 94 80 - 120 0 20 Chromium 98 97 80 - 120 0 20

Client: ERRG Job Number: 720-10820-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-26188

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID:

720-10511-A-5-M MS

Analysis Batch: 720-26276

Instrument ID: Varian ICP

Client Matrix:

Solid

Lab File ID: N/A

Dilution:

1.0

Prep Batch: 720-26188

Initial Weight/Volume: 5 mL

Date Analyzed: Date Prepared:

09/18/2007 1730 09/17/2007 1113 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10511-A-5-N MSD

Analysis Batch: 720-26276

Instrument ID: Varian ICP

Client Matrix:

Solid

Lab File ID: N/A

Dilution:

1.0

Prep Batch: 720-26188

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: Date Prepared:

09/18/2007 1734

09/17/2007 1113

% Pac

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	89	89	80 - 120	0	20	
Chromium	99	98	80 - 120	1	20	

Client: ERRG Job Number: 720-10820-2

Method Blank - Batch: 720-26191

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-26169/1-C

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/18/2007 1351 Date Prepared: 09/17/2007 1138

Date Leached: 09/14/2007 2005

Analysis Batch: 720-26276 Prep Batch: 720-26191

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Leachate Batch: 720-26169

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-26191

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

5 mL

50 mL

LCS Lab Sample ID: LCS 720-26169/22-C

Client Matrix: Dilution:

Solid

Date Analyzed: Date Prepared:

1.0 09/18/2007 1355

09/17/2007 1138 Date Leached: 09/14/2007 2005

LCSD Lab Sample ID: LCSD 720-26169/23-C

Client Matrix:

Solid Dilution: 1.0

Date Analyzed: Date Prepared:

09/18/2007 1408 09/17/2007 1138

09/14/2007 2005 Date Leached:

Analysis Batch: 720-26276

Prep Batch: 720-26191

Units: mg/L

Leachate Batch: 720-26169

Analysis Batch: 720-26276 Prep Batch: 720-26191

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume:

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-26169

% Rec. LCSD

Analyte	LCS	LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qual
Lead	92	93	80 - 120	1	20
Chromium	97	98	80 - 120	1	20

Client: ERRG Job Number: 720-10820-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-26191

Method: 6010B Preparation: 3005A

STLC Citrate

Lab File ID:

MS Lab Sample ID: Client Matrix:

720-10820-3

Analysis Batch: 720-26276

Instrument ID: Varian ICP

Date Analyzed:

Date Prepared:

Solid

Prep Batch: 720-26191

Lab File ID: N/A

Dilution:

1.0

09/18/2007 1412

09/17/2007 1138

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10820-3

Solid

Analysis Batch: 720-26276

Instrument ID: Varian ICP

Client Matrix:

Date Prepared:

Prep Batch: 720-26191

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

N/A

Dilution: Date Analyzed:

1.0

09/18/2007 1416 09/17/2007 1138

	<u>% </u>	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	79	81	80 - 120	0	20	4	4
Chromium	93	93	80 - 120	0	20		

RL

Client: ERRG Job Number: 720-10820-2

Method Blank - Batch: 720-26295 Method: 6010B Preparation: 3010A

TCLP

Lab File ID:

N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Lab Sample ID: MB 720-26237/1-B Analysis Batch: 720-26325 Instrument ID: Varian ICP

Units: mg/L Dilution: 1.0

Date Analyzed: 09/19/2007 0831 Date Prepared: 09/18/2007 1547

Solid

Client Matrix:

Analyte

Date Leached: 09/17/2007 2134 Leachate Batch: 720-26237

Result

Prep Batch: 720-26295

Lead ND 0.50

Lab Control Spike/

Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-26295 Preparation: 3010A

TCLP

Qual

LCS Lab Sample ID: LCS 720-26237/2-B Instrument ID: Varian ICP Analysis Batch: 720-26325

Client Matrix: Solid Prep Batch: 720-26295 Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL 09/19/2007 0834 Final Weight/Volume: 50 mL

Date Analyzed: Date Prepared: 09/18/2007 1547

Date Leached: 09/17/2007 2134 Leachate Batch: 720-26237

LCSD Lab Sample ID: LCSD 720-26237/3-B Analysis Batch: 720-26325 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26295 Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL Date Analyzed: 09/19/2007 0838

Date Prepared: 09/18/2007 1547

Date Leached: 09/17/2007 2134 Leachate Batch: 720-26237

% Rec. Analyte LCS **LCSD** Limit **RPD** RPD Limit LCS Qual LCSD Qual

Lead 99 97 80 - 120

Client: ERRG Job Number: 720-10820-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-26295 Preparation: 3010A

TCLP

MS Lab Sample ID: Client Matrix:

720-10820-1

Solid 1.0

Dilution: Date Analyzed:

09/19/2007 0850 Date Prepared: 09/18/2007 1547

Analysis Batch: 720-26325

Prep Batch: 720-26295

Instrument ID: Varian ICP Lab File ID: N/A

Method: 6010B

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10820-1

Client Matrix: Dilution:

Solid

1.0

Date Analyzed: 09/19/2007 0854 Date Prepared: 09/18/2007 1547

Analysis Batch: 720-26325

Prep Batch: 720-26295

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	94	98	75 - 125	3	20	

Engineering / Remediation Resources Group, Inc.

185 Mason Circle, Suite A

Concord, CA 94520 Phone: (925) 969-0750 Fax: (925) 969-0751 720-10820

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Page 1 of 7-

Project Contact (Hardcopy or PI	OF To):	Cal	ifo un io			40	————				С	hair	1-of-	Cust	ody	Rec	ord	an	d Ana	lysis F	Reque	st
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Engineering / Remediation Resources Group, Inc. 185 Mason Circle, Suite A

Concord, CA 94520 Phone: (925) 969-0750

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Page 1-of 2

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10820-2

Login Number: 10820

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10920-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

milissa Bruver

Designee for
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
09/24/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10920-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 26443 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10920-1	PTLF2IS-1				
Arsenic Barium Chromium Lead Zinc Mercury		3.3 110 270 67 66 0.14	0.95 0.95 0.95 0.95 0.95 0.051	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 6010B 7471A
720-10920-2	PTLF2IS-2				
Arsenic Barium Chromium Lead Silver Zinc Mercury		3.9 180 210 140 1.3 150 0.14	0.96 0.96 0.96 0.96 0.96 0.96 0.049	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 6010B 7471A
720-10920-3	PTLF2IS-3				
Arsenic Barium Chromium Lead Zinc Mercury		2.5 99 120 37 67 0.065	1.0 1.0 1.0 1.0 1.0 0.048	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 6010B 7471A
720-10920-4	PTLF2IS-4				
Arsenic Barium Chromium Lead Zinc Mercury		4.7 120 110 94 130 0.10	1.0 1.0 1.0 1.0 1.0 0.051	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 6010B 7471A
720-10920-5	PTLF2IS-5				
Arsenic Barium Chromium Lead Zinc Mercury		3.0 180 310 62 120 0.11	1.0 1.0 1.0 1.0 1.0 0.051	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A

EXECUTIVE SUMMARY - Detections

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10920-6	PTLF2IS-6				
Arsenic		5.3	1.0	mg/Kg	6010B
Barium		210	1.0	mg/Kg	6010B
Chromium		120	1.0	mg/Kg	6010B
Lead		220	1.0	mg/Kg	6010B
Silver		1.7	1.0	mg/Kg	6010B
Zinc		200	1.0	mg/Kg	6010B
Mercury		0.12	0.050	mg/Kg	7471A
720-10920-7	PTLF2IS-7				
Arsenic		3.5	1.0	mg/Kg	6010B
Barium		210	1.0	mg/Kg	6010B
Chromium		59	1.0	mg/Kg	6010B
Lead		140	1.0	mg/Kg	6010B
Zinc		120	1.0	mg/Kg	6010B
Mercury		0.12	0.050	mg/Kg	7471A
720-10920-8	PTLF2IS-8				
Arsenic		4.3	1.0	mg/Kg	6010B
Barium		160	1.0	mg/Kg	6010B
Cadmium		0.59	0.51	mg/Kg	6010B
Chromium		93	1.0	mg/Kg	6010B
Lead		380	1.0	mg/Kg	6010B
Silver		4.5	1.0	mg/Kg	6010B
Zinc		300	1.0	mg/Kg	6010B
Mercury		0.15	0.051	mg/Kg	7471A
720-10920-9	PTLF2IS-9				
Arsenic		3.6	0.96	mg/Kg	6010B
Barium		130	0.96	mg/Kg	6010B
Chromium		110	0.96	mg/Kg	6010B
Lead		150	0.96	mg/Kg	6010B
Zinc		120	0.96	mg/Kg	6010B
Mercury		0.11	0.051	mg/Kg	7471A
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EXECUTIVE SUMMARY - Detections

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10920-10	PTLF2IS-10					
Arsenic		3.2	1.1	mg/Kg	6010B	
Barium		160	1.1	mg/Kg	6010B	
Chromium		140	1.1	mg/Kg	6010B	
Lead		150	1.1	mg/Kg	6010B	
Zinc		130	1.1	mg/Kg	6010B	
Mercury		0.24	0.050	mg/Kg	7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10920-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor	TAL SF	SW846 7471A	
Technique) Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10920-1	PTI F2IS-1	Solid	09/20/2007 1045	09/20/2007 1819
720-10920-1	PTLF2IS-2	Solid	09/20/2007 1043	09/20/2007 1819
720-10920-3	PTLF2IS-3	Solid	09/20/2007 1055	09/20/2007 1819
720-10920-4	PTLF2IS-4	Solid	09/20/2007 1100	09/20/2007 1819
720-10920-5	PTLF2IS-5	Solid	09/20/2007 1105	09/20/2007 1819
720-10920-6	PTLF2IS-6	Solid	09/20/2007 1110	09/20/2007 1819
720-10920-7	PTLF2IS-7	Solid	09/20/2007 1115	09/20/2007 1819
720-10920-8	PTLF2IS-8	Solid	09/20/2007 1120	09/20/2007 1819
720-10920-9	PTLF2IS-9	Solid	09/20/2007 1125	09/20/2007 1819
720-10920-10	PTLF2IS-10	Solid	09/20/2007 1130	09/20/2007 1819

Client: ERRG Job Number: 720-10920-1

Client Sample ID: PTLF2IS-1

 Lab Sample ID:
 720-10920-1
 Date Sampled:
 09/20/2007
 1045

 Client Matrix:
 Solid
 Date Received:
 09/20/2007
 1819

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26561 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-26443 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.05 g
Date Analyzed: 09/24/2007 1521 Final Weight/Volume: 50 mL

Date Prepared: 09/20/2007 2032

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.3		0.95
Barium		110		0.95
Cadmium		ND		0.48
Chromium		270		0.95
Lead		67		0.95
Selenium		ND		1.9
Silver		ND		0.95
Zinc		66		0.95

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26479 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26453 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g

Date Analyzed: 09/21/2007 1324 Final Weight/Volume: 50 mL

Date Prepared: 09/21/2007 0826

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.14
 0.051

Varian ICP

N/A

Client: ERRG Job Number: 720-10920-1

Client Sample ID: PTLF2IS-2

Lab Sample ID: 720-10920-2 Date Sampled: 09/20/2007 1050 Client Matrix: Date Received: Solid 09/20/2007 1819

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Instrument ID:

Lab File ID:

Method: 6010B Analysis Batch: 720-26561 Preparation: 3050B Prep Batch: 720-26443 Dilution:

1.0 Initial Weight/Volume: 1.04 g Final Weight/Volume: 50 mL Date Analyzed: 09/24/2007 1525

Date Prepared: 09/20/2007 2032

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.9		0.96
Barium		180		0.96
Cadmium		ND		0.48
Chromium		210		0.96
Lead		140		0.96
Selenium		ND		1.9
Silver		1.3		0.96
Zinc		150		0.96

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Instrument ID: **FIMS 100** Analysis Batch: 720-26479 Preparation: 7471A Prep Batch: 720-26453 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.03 g Final Weight/Volume: 50 mL Date Analyzed: 09/21/2007 1325 Date Prepared: 09/21/2007 0826

Qualifier RLAnalyte DryWt Corrected: N Result (mg/Kg)

Mercury 0.14 0.049

Varian ICP

N/A

Client: ERRG Job Number: 720-10920-1

Client Sample ID: PTLF2IS-3

 Lab Sample ID:
 720-10920-3
 Date Sampled:
 09/20/2007 1055

 Client Matrix:
 Solid
 Date Received:
 09/20/2007 1819

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26561 Instrument ID: Preparation: 3050B Prep Batch: 720-26443 Lab File ID: Dilution: 1.0 Initial Weight/\

Dilution: 1.0 Initial Weight/Volume: 0.96 g
Date Analyzed: 09/24/2007 1529 Final Weight/Volume: 50 mL

Date Prepared: 09/20/2007 2032

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		2.5		1.0
Barium		99		1.0
Cadmium		ND		0.52
Chromium		120		1.0
Lead		37		1.0
Selenium		ND		2.1
Silver		ND		1.0
Zinc		67		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26479 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26453 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 09/21/2007 1326 Final Weight/Volume: 50 mL

Date Analyzed: 09/21/2007 1326 Final Weight/Volume: Date Prepared: 09/21/2007 0826

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.065
 0.048

Varian ICP

Client: ERRG Job Number: 720-10920-1

Client Sample ID: PTLF2IS-4

 Lab Sample ID:
 720-10920-4
 Date Sampled:
 09/20/2007
 1100

 Client Matrix:
 Solid
 Date Received:
 09/20/2007
 1819

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26561Preparation:3050BPrep Batch: 720-26443Dilution:1.0

Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

Instrument ID:

Date Analyzed: 09/24/2007 1532 Date Prepared: 09/20/2007 2032

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.7		1.0
Barium		120		1.0
Cadmium		ND		0.50
Chromium		110		1.0
Lead		94		1.0
Selenium		ND		2.0
Silver		ND		1.0
Zinc		130		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Preparation: 7471A Dilution: 1.0 Analysis Batch: 720-26479 Prep Batch: 720-26453 Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 50 mL

Date Analyzed: 09/21/2007 1327 Date Prepared: 09/21/2007 0826

Date Prepared: 09/21/2007 0826

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Mercury		0.10		0.051

Client: ERRG Job Number: 720-10920-1

Client Sample ID: PTLF2IS-5

 Lab Sample ID:
 720-10920-5
 Date Sampled:
 09/20/2007 1105

 Client Matrix:
 Solid
 Date Received:
 09/20/2007 1819

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26561Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26443Lab File ID:N/ADilution:1.0Initial Weight/Volume:0.96 q

Dilution: 1.0 Initial Weight/Volume: 0.96 g
Date Analyzed: 09/24/2007 1536 Final Weight/Volume: 50 mL

Date Prepared: 09/20/2007 2032

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.0		1.0
Barium		180		1.0
Cadmium		ND		0.52
Chromium		310		1.0
Lead		62		1.0
Selenium		ND		2.1
Silver		ND		1.0
Zinc		120		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26479 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26453 Lab File ID: N/A

 Dilution:
 1.0
 Initial Weight/Volume:
 0.99 g

 Date Analyzed:
 09/21/2007 1328
 Final Weight/Volume:
 50 mL

 Date Prepared:
 09/21/2007 0826

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.11 0.051

Varian ICP

Client: ERRG Job Number: 720-10920-1

Client Sample ID: PTLF2IS-6

Lab Sample ID: 720-10920-6 Date Sampled: 09/20/2007 1110 Client Matrix: Date Received: Solid 09/20/2007 1819

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Instrument ID:

Method: 6010B Analysis Batch: 720-26561 Preparation: 3050B Prep Batch: 720-26443 Dilution:

Lab File ID: N/A 1.0 Initial Weight/Volume: 0.96 g Final Weight/Volume: 50 mL Date Analyzed: 09/24/2007 1556

Date Prepared: 09/20/2007 2032

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		5.3		1.0
Barium		210		1.0
Cadmium		ND		0.52
Chromium		120		1.0
Lead		220		1.0
Selenium		ND		2.1
Silver		1.7		1.0
Zinc		200		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Instrument ID: **FIMS 100** Analysis Batch: 720-26479 Preparation: 7471A Prep Batch: 720-26453 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL Date Analyzed: 09/21/2007 1332 Date Prepared: 09/21/2007 0826

Qualifier RLAnalyte DryWt Corrected: N Result (mg/Kg)

Mercury 0.12 0.050

Client: ERRG Job Number: 720-10920-1

Client Sample ID: PTLF2IS-7

Lab Sample ID: 720-10920-7 Date Sampled: 09/20/2007 1115 Client Matrix: Date Received: Solid 09/20/2007 1819

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Preparation: 3050B Dilution:

1.0

Date Analyzed: 09/24/2007 1600 Date Prepared: 09/20/2007 2032 Analysis Batch: 720-26561

Prep Batch: 720-26443

Instrument ID: Lab File ID: Initial Weight/Volume:

Varian ICP N/A 0.99 g

Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.5		1.0
Barium		210		1.0
Cadmium		ND		0.51
Chromium		59		1.0
Lead		140		1.0
Selenium		ND		2.0
Silver		ND		1.0
Zinc		120		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Preparation: 7471A Dilution: 1.0

Date Analyzed: 09/21/2007 1333 Date Prepared: 09/21/2007 0826 Analysis Batch: 720-26479

Prep Batch: 720-26453

Instrument ID: Lab File ID:

FIMS 100 N/A

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

Qualifier RLAnalyte DryWt Corrected: N Result (mg/Kg) Mercury 0.12 0.050

Client: ERRG Job Number: 720-10920-1

Client Sample ID: PTLF2IS-8

 Lab Sample ID:
 720-10920-8
 Date Sampled:
 09/20/2007
 1120

 Client Matrix:
 Solid
 Date Received:
 09/20/2007
 1819

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26561Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26443Lab File ID:N/ADilution:1.0Initial Weight/Volume:0.99 q

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 09/24/2007 1603 Final Weight/Volume: 50 mL

Date Prepared: 09/20/2007 2032

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.3		1.0
Barium		160		1.0
Cadmium		0.59		0.51
Chromium		93		1.0
Lead		380		1.0
Selenium		ND		2.0
Silver		4.5		1.0
Zinc		300		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26479 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26453 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 09/21/2007 1335 Final Weight/Volume: 50 mL

Date Analyzed: 09/21/2007 1335 Final Weight/Volume: 50 mL Date Prepared: 09/21/2007 0826

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.15
 0.051

Client: ERRG Job Number: 720-10920-1

Client Sample ID: PTLF2IS-9

 Lab Sample ID:
 720-10920-9
 Date Sampled:
 09/20/2007 1125

 Client Matrix:
 Solid
 Date Received:
 09/20/2007 1819

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26561Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26443Lab File ID:N/ADilution:1.0Initial Weight/Volume:1.04 g

Dilution: 1.0 Initial Weight/Volume: 1.04 g
Date Analyzed: 09/24/2007 1607 Final Weight/Volume: 50 mL

Date Prepared: 09/20/2007 2032

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.6		0.96
Barium		130		0.96
Cadmium		ND		0.48
Chromium		110		0.96
Lead		150		0.96
Selenium		ND		1.9
Silver		ND		0.96
Zinc		120		0.96

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 720-26479Instrument ID:FIMS 100Preparation:7471APrep Batch: 720-26453Lab File ID:N/A

Dilution: 1.0 Initial Weight/Volume: 0.98 g
Date Analyzed: 09/21/2007 1336 Final Weight/Volume: 50 mL

Date Prepared: 09/21/2007 0826

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.11
 0.051

Client: ERRG Job Number: 720-10920-1

Client Sample ID: PTLF2IS-10

 Lab Sample ID:
 720-10920-10
 Date Sampled:
 09/20/2007 1130

 Client Matrix:
 Solid
 Date Received:
 09/20/2007 1819

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26561 Instrument ID: Varian ICP Preparation: 3050B Prep Batch: 720-26443 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.95 g
Date Analyzed: 09/24/2007 1611 Final Weight/Volume: 50 mL

Date Prepared: 09/20/2007 2032

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.2		1.1
Barium		160		1.1
Cadmium		ND		0.53
Chromium		140		1.1
Lead		150		1.1
Selenium		ND		2.1
Silver		ND		1.1
Zinc		130		1.1

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26479 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26453 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g
Date Analyzed: 09/21/2007 1337 Final Weight/Volume: 50 mL

Date Analyzed: 09/21/2007 1337 Final Weight/Volume: 09/21/2007 0826

 Analyte
 DryWt Corrected: N
 Result (mg/Kg)
 Qualifier
 RL

 Mercury
 0.24
 0.050

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
NA-4-1-		
Metals		
	F	MS or MSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits

Client: ERRG Job Number: 720-10920-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals	Choire Gampio 12		CHOIR MALIX	ou	. rop Zaton
Prep Batch: 720-26443					
LCS 720-26443/2-A	Lab Control Spike	Т	Solid	3050B	
LCSD 720-26443/3-A	Lab Control Spike Duplicate	Т	Solid	3050B	
MB 720-26443/1-A	Method Blank	T	Solid	3050B	
720-10920-1	PTLF2IS-1	Т	Solid	3050B	
720-10920-1MS	Matrix Spike	T	Solid	3050B	
720-10920-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
720-10920-2	PTLF2IS-2	T	Solid	3050B	
720-10920-3	PTLF2IS-3	Т	Solid	3050B	
720-10920-4	PTLF2IS-4	T	Solid	3050B	
720-10920-5	PTLF2IS-5	T	Solid	3050B	
720-10920-6	PTLF2IS-6	T	Solid	3050B	
720-10920-7	PTLF2IS-7	T	Solid	3050B	
720-10920-8	PTLF2IS-8	T	Solid	3050B	
720-10920-9	PTLF2IS-9	T	Solid	3050B	
720-10920-10	PTLF2IS-10	Т	Solid	3050B	
Prep Batch: 720-26453					
LCS 720-26453/2-A	Lab Control Spike	Т	Solid	7471A	
LCSD 720-26453/3-A	Lab Control Spike Duplicate	Т	Solid	7471A	
MB 720-26453/1-A	Method Blank	Т	Solid	7471A	
720-10920-1	PTLF2IS-1	Т	Solid	7471A	
720-10920-1MS	Matrix Spike	Т	Solid	7471A	
720-10920-1MSD	Matrix Spike Duplicate	Т	Solid	7471A	
720-10920-2	PTLF2IS-2	Т	Solid	7471A	
720-10920-3	PTLF2IS-3	Т	Solid	7471A	
720-10920-4	PTLF2IS-4	Т	Solid	7471A	
720-10920-5	PTLF2IS-5	Т	Solid	7471A	
720-10920-6	PTLF2IS-6	Т	Solid	7471A	
720-10920-7	PTLF2IS-7	Т	Solid	7471A	
720-10920-8	PTLF2IS-8	Т	Solid	7471A	
720-10920-9	PTLF2IS-9	Т	Solid	7471A	
720-10920-10	PTLF2IS-10	Т	Solid	7471A	

Client: ERRG Job Number: 720-10920-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:720-2	6479				
LCS 720-26453/2-A	Lab Control Spike	Т	Solid	7471A	720-26453
LCSD 720-26453/3-A	Lab Control Spike Duplicate	T	Solid	7471A	720-26453
MB 720-26453/1-A	Method Blank	Т	Solid	7471A	720-26453
720-10920-1	PTLF2IS-1	Т	Solid	7471A	720-26453
720-10920-1MS	Matrix Spike	Т	Solid	7471A	720-26453
720-10920-1MSD	Matrix Spike Duplicate	Т	Solid	7471A	720-26453
720-10920-2	PTLF2IS-2	T	Solid	7471A	720-26453
720-10920-3	PTLF2IS-3	Т	Solid	7471A	720-26453
720-10920-4	PTLF2IS-4	Т	Solid	7471A	720-26453
720-10920-5	PTLF2IS-5	Т	Solid	7471A	720-26453
720-10920-6	PTLF2IS-6	Т	Solid	7471A	720-26453
720-10920-7	PTLF2IS-7	Т	Solid	7471A	720-26453
720-10920-8	PTLF2IS-8	Т	Solid	7471A	720-26453
720-10920-9	PTLF2IS-9	Т	Solid	7471A	720-26453
720-10920-10	PTLF2IS-10	Т	Solid	7471A	720-26453
Analysis Batch:720-2	6561				
LCS 720-26443/2-A	Lab Control Spike	Т	Solid	6010B	720-26443
LCSD 720-26443/3-A	Lab Control Spike Duplicate	Т	Solid	6010B	720-26443
MB 720-26443/1-A	Method Blank	Т	Solid	6010B	720-26443
720-10920-1	PTLF2IS-1	Т	Solid	6010B	720-26443
720-10920-1MS	Matrix Spike	Т	Solid	6010B	720-26443
720-10920-1MSD	Matrix Spike Duplicate	Т	Solid	6010B	720-26443
720-10920-2	PTLF2IS-2	Т	Solid	6010B	720-26443
720-10920-3	PTLF2IS-3	Т	Solid	6010B	720-26443
720-10920-4	PTLF2IS-4	Т	Solid	6010B	720-26443
720-10920-5	PTLF2IS-5	Т	Solid	6010B	720-26443
720-10920-6	PTLF2IS-6	Т	Solid	6010B	720-26443
720-10920-7	PTLF2IS-7	Т	Solid	6010B	720-26443
720-10920-8	PTLF2IS-8	Т	Solid	6010B	720-26443
720-10920-9	PTLF2IS-9	Т	Solid	6010B	720-26443
720-10920-10	PTLF2IS-10	Ť	Solid	6010B	720-26443

Report Basis T = Total

Client: ERRG Job Number: 720-10920-1

Method Blank - Batch: 720-26443 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-26443/1-A Analysis Batch: 720-26561 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26443 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/24/2007 1503 Final Weight/Volume: 50 mL Date Prepared: 09/20/2007 2032

Analyte	Result Qual	RL
Arsenic	ND	1.0
Barium	ND	1.0
Cadmium	ND	0.50
Chromium	ND	1.0
Lead	ND	1.0
Selenium	ND	2.0
Silver	ND	1.0
7inc	ND	1.0

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-26443 Preparation: 3050B

LCS Lab Sample ID: LCS 720-26443/2-A Analysis Batch: 720-26561 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26443 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/24/2007 1506 Final Weight/Volume: 50 mL

Date Analyzed: 09/24/2007 1506 Final Weight/Volume: 50 mL Date Prepared: 09/20/2007 2032

LCSD Lab Sample ID: LCSD 720-26443/3-A Analysis Batch: 720-26561 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26443 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/24/2007 1510 Final Weight/Volume: 50 mL
Date Prepared: 09/20/2007 2032

	<u>%</u>	Rec.			
Analyte	LCS	LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qua
Arsenic	90	91	80 - 120	1	20
Barium	83	84	80 - 120	1	20
Cadmium	89	90	80 - 120	1	20
Chromium	90	91	80 - 120	0	20
Lead	89	90	80 - 120	1	20
Selenium	94	95	80 - 120	1	20
Silver	90	91	80 - 120	1	20
Zinc	89	90	80 - 120	1	20

Client: ERRG Job Number: 720-10920-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-26443

Method: 6010B Preparation: 3050B

MS Lab Sample ID: 720-10920-1 Client Matrix:

Solid

Analysis Batch: 720-26561 Prep Batch: 720-26443

Instrument ID: Varian ICP Lab File ID: N/A

Dilution: 1.0 Date Analyzed: 09/24/2007 1514

09/20/2007 2032

Initial Weight/Volume: 0.96 g Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10920-1

Client Matrix: Dilution:

Date Prepared:

Solid

1.0

Date Analyzed: 09/24/2007 1518 Date Prepared: 09/20/2007 2032

Instrument ID: Varian ICP Analysis Batch: 720-26561 Prep Batch: 720-26443 Lab File ID: N/A

> Initial Weight/Volume: 0.96 g Final Weight/Volume: 50 mL

	<u>% F</u>	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	69	66	75 - 125	4	20	F	F
Barium	80	69	75 - 125	8	20		F
Cadmium	64	62	75 - 125	4	20	F	F
Chromium	68	80	75 - 125	6	20	F	
Lead	259	55	75 - 125	108	20	F	F
Selenium	70	67	75 - 125	4	20	F	F
Silver	61	52	75 - 125	15	20	F	F
Zinc	64	61	75 - 125	3	20	F	F

Client: ERRG Job Number: 720-10920-1

Method Blank - Batch: 720-26453 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-26453/1-A Analysis Batch: 720-26479 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26453 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/21/2007 1318 Final Weight/Volume: 50 mL Date Prepared: 09/21/2007 0826

 Analyte
 Result
 Qual
 RL

 Mercury
 ND
 0.050

Lab Control Spike/ Method: 7471A
Lab Control Spike Duplicate Recovery Report - Batch: 720-26453 Preparation: 7471A

LCS Lab Sample ID: LCS 720-26453/2-A Analysis Batch: 720-26479 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26453 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/21/2007 1319 Final Weight/Volume: 50 mL Date Prepared: 09/21/2007 0826

LCSD Lab Sample ID: LCSD 720-26453/3-A Analysis Batch: 720-26479 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26453 Lab File ID: N/A

99

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/21/2007 1320 Final Weight/Volume: 50 mL
Date Prepared: 09/21/2007 0826

100

Analyte LCS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual

85 - 115

20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Mercury

Client: ERRG Job Number: 720-10920-1

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-26453 Preparation: 7471A

MS Lab Sample ID: 720-10920-1 Analysis Batch: 720-26479 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26453 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 0.99 g
Date Analyzed: 09/21/2007 1321 Final Weight/Volume: 50 mL
Date Prepared: 09/21/2007 0826

MSD Lab Sample ID: 720-10920-1 Analysis Batch: 720-26479 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26453 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.02 g

Date Analyzed: 09/21/2007 1322 Final Weight/Volume: 50 ml

Date Analyzed: 09/21/2007 1322 Final Weight/Volume: 50 mL Date Prepared: 09/21/2007 0826

 MS
 MSD
 Limit
 RPD
 RPD Limit
 MS Qual
 MSD Qual

 Mercury
 103
 93
 85 - 115
 10
 20



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107301

Project Contact (Hardcopy or PI								Т	C	hai	n-of	-Cu	sto	dv R	ecord	lan	d Anal	vsis R	eaues	t
Tysen Aprel / Anthony & Laboratory / Address:	roderide	California EDF Report? Yes No											T	,	III					
Laboratory / Address:		Electro	Electronic Deliverables To (Email Address):				1		Α	naly	/sis	Red	ques	t		TAT				
Test America								\vdash	_						-		-			
Phone No.: Fax No.: (425) 353 - 2918		Sampl	er: A	B					210	4							D (1			
Project Number: Phase # / 27 - \28	Task#								(8015M/8021)		8260B)						12 hr/ 24 hr/ <u>48 hr</u> / 72 hr/STD (1 wk)			
Project Name: Presidio Trust Lodfill	(2-2	Projec	Addre	95S:						(00)	EPA 82	-	5	5			8 hd 72 wk)	iners		
Project Manager:	Sam	pling		Conta	iner		Matrix	(MTE	827	SU)	古っ	86,	Ples			848	onta		Only
7			1-250 mL Poly Unpreserved	1-250 mL Poty w/ HNO ₃ 8 o Z Jan				BTEX (8021B)	TPH Gas/BTEX/MTBE	SVOCs (USEPA 8270C)	VOCs - Full List (USEPA	O	3	6			24 hr	Number of Containers	nts	For Lab Use Only
Sample			0 m	E O	4 1 1		Ľ,	80	Gas	Cs (I	i i	RA	STIX	7			hr/	ıpeı	эшс	Lab
Designation	Date	Time	1-250 mL Unpresen	1-250 mL w/ HNO ₃ 8 c z J.a			SOIL	BTE	TPH	SVO	VOC	RCRA	\$V	7			12	N	Comments	For
PTLF2IS-1	9/20/07	10415		N			X	T				×	X	X						
TLF2IS-Z	V	10 50					X					X	X	X		le l				
PTLF2IS-3		1055					X					<	X	X						
PTLF2IS-4		1100					X					X	X	X	- 351					
PTLF-2TLS-5		1105					X					X	X	1						
PT4ZIS-6	\ \	1110					X					X	X	X						
TLF2IS-7		1115					X					X	X	X		ir.				
OTLFZIS-8		1120					X					X	X	1						
TLFZTS-9		1125					X					X	X	1						
PTLF2IS-16	6	1130		1			Х					X	X	V						
Relinquished by:	G	Date 9/20/07		Received by	(6.6-	~	536	, (Rem	arks	•8 •3 •3		9	7	lo II	IIC		4.		36
Relinguished by:		Date		Received by						3		- Cn	P:		RL		G	-		
Refinquished by:	9	Date /07	Time	Réceived by	Laborator	y:			Bill t		185 N	Maso	n Cir	Reme cle, Si 94520		Reso	ources G	roup, In	c.	

Login Sample Receipt Check List

Client: ERRG Job Number: 720-10920-1

List Source: TestAmerica San Francisco

Login Number: 10920

Creator: Bullock, Tracy

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10843-1

Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520 Attention: Tyson Appel

Surmider Sidhu

Designee for
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
09/18/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10843-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10843-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10843-1	PTLF12WS39 A-D					
Barium Chromium Lead Zinc Mercury		150 220 230 430 0.20	1.0 1.0 1.0 1.0 0.050	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A	
720-10843-2	PTLF12WS40 A-D					
Barium Chromium Lead Zinc Mercury		160 260 350 310 0.25	1.0 1.0 1.0 1.0 0.050	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	6010B 6010B 6010B 6010B 7471A	

METHOD SUMMARY

Client: ERRG Job Number: 720-10843-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Acid Digestion of Sediments, Sludges, and Soils	TAL SF TAL SF	SW846 6010B	SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor	TAL SF	SW846 7471A	
Technique) Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10843-1

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10843-1	PTLF12WS39 A-D	Solid	09/15/2007 0000	09/15/2007 0950
720-10843-2	PTLF12WS40 A-D	Solid	09/15/2007 0000	09/15/2007 0950

Analytical Data

Client: ERRG Job Number: 720-10843-1

Client Sample ID: PTLF12WS39 A-D

 Lab Sample ID:
 720-10843-1
 Date Sampled:
 09/15/2007 0000

 Client Matrix:
 Solid
 Date Received:
 09/15/2007 0950

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B Analysis Batch: 720-26253 Instrument ID: Varian ICP

Preparation: 3050B Prep Batch: 720-26217 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 0.97 g

Date Analyzed: 09/18/2007 1110 Final Weight/Volume: 50 mL

Date Prepared: 09/17/2007 1500

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		ND		1.0
Barium		150		1.0
Cadmium		ND		0.52
Chromium		220		1.0
Lead		230		1.0
Selenium		ND		2.1
Silver		ND		1.0
Zinc		430		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26273 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26247 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g

Date Analyzed: 09/18/2007 1223 Final Weight/Volume: 50 mL

Date Prepared: 09/18/2007 0837

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

Mercury 0.20 0.050

Analytical Data

50 mL

1.0

0.050

Client: ERRG Job Number: 720-10843-1

Client Sample ID: PTLF12WS40 A-D

Zinc

Mercury

 Lab Sample ID:
 720-10843-2
 Date Sampled:
 09/15/2007 0000

 Client Matrix:
 Solid
 Date Received:
 09/15/2007 0950

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:6010BAnalysis Batch: 720-26253Instrument ID:Varian ICPPreparation:3050BPrep Batch: 720-26217Lab File ID:N/ADilution:1.0Initial Weight/Volume:0.99 g

Date Analyzed: 09/18/2007 1113 Final Weight/Volume: Date Prepared: 09/17/2007 1500

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RLArsenic ND 1.0 Barium 160 1.0 ND Cadmium 0.51 Chromium 260 1.0 Lead 350 1.0 Selenium ND 2.0 Silver ND 1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 720-26273 Instrument ID: FIMS 100 Preparation: 7471A Prep Batch: 720-26247 Lab File ID: N/A

310

Dilution: 1.0 Initial Weight/Volume: 1.00 g

Date Analyzed: 09/18/2007 1222 Final Weight/Volume: 50 mL Date Prepared: 09/18/2007 0837

0.25

Analyte DryWt Corrected: N Result (mg/Kg) Qualifier RL

DATA REPORTING QUALIFIERS

Client: ERRG Job Number: 720-10843-1

Lab Section	Qualifier	Description
Metals		
	F	MS or MSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits

Client: ERRG Job Number: 720-10843-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-26217					
LCS 720-26217/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-26217/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
MB 720-26217/1-A	Method Blank	T	Solid	3050B	
720-10820-A-10-F MS	Matrix Spike	Т	Solid	3050B	
720-10820-A-10-G MSD	Matrix Spike Duplicate	Т	Solid	3050B	
720-10843-1	PTLF12WS39 A-D	Т	Solid	3050B	
720-10843-2	PTLF12WS40 A-D	Т	Solid	3050B	
Prep Batch: 720-26247					
MB 720-26247/1-A	Method Blank	Т	Solid	7471A	
720-10843-1	PTLF12WS39 A-D	Т	Solid	7471A	
720-10843-1MS	Matrix Spike	Т	Solid	7471A	
720-10843-1MSD	Matrix Spike Duplicate	Т	Solid	7471A	
720-10843-2	PTLF12WS40 A-D	Т	Solid	7471A	
Analysis Batch:720-262	53				
LCS 720-26217/2-A	Lab Control Spike	Т	Solid	6010B	720-26217
LCSD 720-26217/3-A	Lab Control Spike Duplicate	Ť	Solid	6010B	720-26217
MB 720-26217/1-A	Method Blank	Т	Solid	6010B	720-26217
720-10820-A-10-F MS	Matrix Spike	Т	Solid	6010B	720-26217
720-10820-A-10-G MSD	Matrix Spike Duplicate	Ť	Solid	6010B	720-26217
720-10843-1	PTLF12WS39 A-D	Ť	Solid	6010B	720-26217
720-10843-2	PTLF12WS40 A-D	T	Solid	6010B	720-26217
Analysis Batch:720-2627	73				
MB 720-26247/1-A	Method Blank	Т	Solid	7471A	720-26247
720-10843-1	PTLF12WS39 A-D	Ť	Solid	7471A	720-26247
720-10843-1MS	Matrix Spike	Ť	Solid	7471A	720-26247
720-10843-1MSD	Matrix Spike Duplicate	Ť	Solid	7471A	720-26247
					720-26247
720-10843-2	PTLF12WS40 A-D	τ̈́	Solid	7471A	

Report Basis T = Total

Client: ERRG Job Number: 720-10843-1

Method Blank - Batch: 720-26217 Method: 6010B Preparation: 3050B

Lab Sample ID: MB 720-26217/1-A Analysis Batch: 720-26253 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26217 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/18/2007 1037 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1500

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Barium	ND		1.0
Cadmium	ND		0.50
Chromium	ND		1.0
Lead	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Zinc	ND		1.0

Lab Control Spike/ Method: 6010B
Lab Control Spike Duplicate Recovery Report - Batch: 720-26217 Preparation: 3050B

LCS Lab Sample ID: LCS 720-26217/2-A Analysis Batch: 720-26253 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26217 Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/18/2007 1040 Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1040 Final Weight/Volume: 50 mL Date Prepared: 09/17/2007 1500

LCSD Lab Sample ID: LCSD 720-26217/3-A Analysis Batch: 720-26253 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26217 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g
Date Analyzed: 09/18/2007 1044 Final Weight/Volume: 50 mL
Date Prepared: 09/17/2007 1500

	<u>%</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	94	94	80 - 120	1	20		
Barium	87	87	80 - 120	1	20		
Cadmium	90	91	80 - 120	1	20		
Chromium	92	93	80 - 120	1	20		
Lead	90	91	80 - 120	1	20		
Selenium	97	98	80 - 120	1	20		
Silver	89	90	80 - 120	1	20		
Zinc	88	89	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10843-1

Analysis Batch: 720-26253

Prep Batch: 720-26217

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-26217 Method: 6010B Preparation: 3050B

MS Lab Sample ID: 720-10820-A-10-F MS

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/18/2007 1048 Date Prepared: 09/17/2007 1500 Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1.02 g Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10820-A-10-G MSD Analysis Batch: 720-26253 Prep Batch: 720-26217

Client Matrix: Solid

1.0 Dilution:

Date Analyzed: 09/18/2007 1052 Date Prepared: 09/17/2007 1500 Instrument ID: Varian ICP

Lab File ID: N/A

Initial Weight/Volume: 1.00 g Final Weight/Volume: 50 mL

	<u>% R</u>	lec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	66	69	75 - 125	6	20	F	F
Barium	75	78	75 - 125	3	20		
Cadmium	61	64	75 - 125	7	20	F	F
Chromium	72	72	75 - 125	1	20	F	F
Lead	58	86	75 - 125	25	20	F	F
Selenium	67	71	75 - 125	8	20	F	F
Silver	65	67	75 - 125	4	20	F	F
Zinc	63	75	75 - 125	12	20	F	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10843-1

Method Blank - Batch: 720-26247 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 720-26247/1-A Analysis Batch: 720-26273 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26247 Lab File ID: N/A
Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 1 g

Date Analyzed: 09/18/2007 1216 Final Weight/Volume: 50 mL

Date Prepared: 09/18/2007 0837

 Analyte
 Result
 Qual
 RL

 Mercury
 ND
 0.050

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 720-26247 Preparation: 7471A

MS Lab Sample ID: 720-10843-1 Analysis Batch: 720-26273 Instrument ID: FIMS 100

Client Matrix: Solid Prep Batch: 720-26247 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g
Date Analyzed: 09/18/2007 1220 Final Weight/Volume: 50 mL

Date Analyzed: 09/18/2007 1220 Final Weight/Volume: 50 mL Date Prepared: 09/18/2007 0837

MSD Lab Sample ID: 720-10843-1 Analysis Batch: 720-26273 Instrument ID: FIMS 100 Client Matrix: Solid Prep Batch: 720-26247 Lab File ID: N/A

Dilution: 1.0 Initial Weight/Volume: 1.01 g

Date Analyzed: 09/18/2007 1221 Final Weight/Volume: 50 mL
Date Prepared: 09/18/2007 0837

<u>% Rec.</u>

Analyte MS MSD Limit RPD RPD Limit MS Qual MSD Qual

Mercury 103 106 85 - 115 2 20

TESTAMERICA San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Plans (925) 484-1919 • Fax: (925) 600-3002
Email: sflogin@stl-inc.com Reference #: 107219 Date 9/8/07 Page 1 of Analysis Request Report To EPA 200.8/6020 Metals: 🗆 Lead 🗇 LUFT 🗇 RCRA Fuel Tests EPA 82508: CI Gas: CI 8TEX CI Five Oxyenates CI DCA, EDB CI Volatile Organics GC/MS (VOCs) □ EPA 8260B □ 624 Hexavajent Chromium pH (24h hold time for H₂O) ☐ 8015/8021 ☐ 82508 ☐ BTEX ☐ MTBE D SO, D NO, D NO, C Lead tor Company: ERRG DD Purgeable Aromatics BTEX EPA - □ 8021 □ 8263B Address: 185 Moston (V \Box CAM17 Metals (EPA 6010/7470/7471) TEPH EPA 8015M® □ mivolatiles GC/MS EPA 8270 □ 625 Low Level Metals by E (ICP-MS): W.E.T (STLC) TCLP Email: Phone: Spec Cond. TSS Sampled By: Bill To: 5 10 П FRRG TAA TPH EPA - [Pesticides PCBs STIC Attn: Pres 00 Sample ID Date Time пх PTLF12 W539 A-D 5 PTLFIZWS 40 A-D ATTRIBUTE 2) Relinquished by: 3) Relinquished by: 1) Relinquished by: Project Info. Sample Receipt Project Name: Prosidio - AIS # of Containers: Time Signature Time Time Signature Signature Project#: Head Space: 9/15/02 Printed Name Printed Name Date Printed Name Date Date Temp: 27-178 ERRC Credit Card#: Conforms to record: Company Company Company 3) Received by: 1) Received by: 2) Received by: 5 72h 48h 24h Other: Signature Time Signature Time Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF Special Instructions / Comments: ☐ Global (D) Marceldellera Printed Name Printed Name Date Printed Name Date See Terms and Conditions on reverse Company Company Company *TestAmerica SF reports 8015M from C_{ir}C₂₄ (Industry norm). Default for 8015B is C10-C28 Ray 05/04

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10843-1

Login Number: 10843

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 720-10843-2 Job Description: AIS-LF 1 & 2

For: ERRG 185 Mason Circle, Ste A Concord, CA 94520

Attention: Tyson Appel

1...

Dimple Sharma Project Manager I dimple.sharma@testamericainc.com 09/19/2007

cc: Mr. Goose Tucker

Job Narrative 720-J10843-2

Comments

No additional comments.

ReceiptAll samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General ChemistryNo analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERRG Job Number: 720-10843-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-10843-1	PTLF12WS39 A-D					
STLC Citrate Lead Chromium		15 1.2	0.50 0.50	mg/L mg/L	6010B 6010B	
<i>TCLP</i> Lead		0.96	0.50	mg/L	6010B	
720-10843-2	PTLF12WS40 A-D					
STLC Citrate Lead Chromium		36 0.89	0.50 0.50	mg/L mg/L	6010B 6010B	
<i>TCLP</i> Lead		1.0	0.50	mg/L	6010B	

METHOD SUMMARY

Client: ERRG Job Number: 720-10843-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL SF		SW846 1311
California WET Citrate Leach	TAL SF		CA-WET CA WET Citrate
Acid Digestion of Waters for Total Recoverable or	TAL SF		SW846 3005A
Acid Digestion of Aqueous Samples and Extracts for	TAL SF		SW846 3010A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ERRG Job Number: 720-10843-2

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
720-10843-1	PTLF12WS39 A-D	Solid	09/15/2007 0000	09/15/2007 0950
720-10843-2	PTLF12WS40 A-D	Solid	09/15/2007 0000	09/15/2007 0950

Analytical Data

Client: ERRG Job Number: 720-10843-2

Client Sample ID: PTLF12WS39 A-D

 Lab Sample ID:
 720-10843-1
 Date Sampled:
 09/15/2007 0000

 Client Matrix:
 Solid
 Date Received:
 09/15/2007 0950

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B Analysis Batch: 720-26325 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0842 Date Prepared: 09/18/2007 1547 Date Leached: 09/17/2007 2134

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 0.96
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-26276Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26251Lab File ID:N/ADilution:1.0Leachate Batch: 720-26250Initial Weight/Volume:5 mL

Date Analyzed: 09/18/2007 1300 Date Prepared: 09/18/2007 1030 Date Leached: 09/14/2007 1030

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 15
 0.50

 Chromium
 1.2
 0.50

Analytical Data

Client: ERRG Job Number: 720-10843-2

Client Sample ID: PTLF12WS40 A-D

 Lab Sample ID:
 720-10843-2
 Date Sampled:
 09/15/2007 0000

 Client Matrix:
 Solid
 Date Received:
 09/15/2007 0950

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

6010B Method: Analysis Batch: 720-26325 Instrument ID: Varian ICP Preparation: 3010A Prep Batch: 720-26295 Lab File ID: N/A Dilution: 1.0 Leachate Batch: 720-26237 Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Date Analyzed: 09/19/2007 0846 Date Prepared: 09/18/2007 1547 Date Leached: 09/17/2007 2134

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 1.0
 0.50

 Chromium
 ND
 0.50

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-STLC Citrate

Final Weight/Volume:

50 mL

Method:6010BAnalysis Batch: 720-26276Instrument ID:Varian ICPPreparation:3005APrep Batch: 720-26251Lab File ID:N/ADilution:1.0Leachate Batch: 720-26250Initial Weight/Volume:5 mL

Date Analyzed: 09/18/2007 1304 Date Prepared: 09/18/2007 1030 Date Leached: 09/14/2007 1030

 Analyte
 DryWt Corrected: N
 Result (mg/L)
 Qualifier
 RL

 Lead
 36
 0.50

 Chromium
 0.89
 0.50

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

Client: ERRG Job Number: 720-10843-2

QC Association Summary

	011 10 115	Report	0 11		
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-26237					
LCS 720-26237/2-B	Lab Control Spike	Р	Solid	1311	
LCSD 720-26237/3-B	Lab Control Spike Duplicate	Р	Solid	1311	
MB 720-26237/1-B	Method Blank	Р	Solid	1311	
720-10843-1	PTLF12WS39 A-D	Р	Solid	1311	
720-10843-2	PTLF12WS40 A-D	Р	Solid	1311	
Prep Batch: 720-26250					
LCS 720-26250/2-B	Lab Control Spike	С	Solid	CA WET Citrate	
LCSD 720-26250/3-B	Lab Control Spike Duplicate	С	Solid	CA WET Citrate	
MB 720-26250/1-B	Method Blank	C	Solid	CA WET Citrate	
720-10843-1	PTLF12WS39 A-D	C	Solid	CA WET Citrate	
720-10843-2	PTLF12WS40 A-D	C	Solid	CA WET Citrate	
Prep Batch: 720-26251					
LCS 720-26250/2-B	Lab Control Spike	С	Solid	3005A	720-26250
LCSD 720-26250/3-B	Lab Control Spike Duplicate	C	Solid	3005A	720-26250
MB 720-26250/1-B	Method Blank	C	Solid	3005A	720-26250
720-10843-1MS	Matrix Spike	C	Solid	3005A	120-20250
720-10843-1MSD	Matrix Spike Duplicate	C	Solid	3005A	
720-10843-1W3D	PTLF12WS39 A-D	C	Solid	3005A	720-26250
720-10843-1	PTLF12WS39 A-D PTLF12WS40 A-D	C	Solid	3005A	720-26250
720-10043-2	FILFIZWS40 A-D	C	Solid	3003A	720-20250
Analysis Batch:720-2627					
LCS 720-26250/2-B	Lab Control Spike	С	Solid	6010B	720-26251
LCSD 720-26250/3-B	Lab Control Spike Duplicate	С	Solid	6010B	720-26251
MB 720-26250/1-B	Method Blank	С	Solid	6010B	720-26251
720-10843-1	PTLF12WS39 A-D	С	Solid	6010B	720-26251
720-10843-1MS	Matrix Spike	С	Solid	6010B	720-26251
720-10843-1MSD	Matrix Spike Duplicate	С	Solid	6010B	720-26251
720-10843-2	PTLF12WS40 A-D	С	Solid	6010B	720-26251
Prep Batch: 720-26295					
LCS 720-26237/2-B	Lab Control Spike	Р	Solid	3010A	720-26237
LCSD 720-26237/3-B	Lab Control Spike Duplicate	Р	Solid	3010A	720-26237
MB 720-26237/1-B	Method Blank	Р	Solid	3010A	720-26237
720-10820-A-1-G MS	Matrix Spike	Р	Solid	3010A	
720-10820-A-1-H MSD	Matrix Spike Duplicate	Р	Solid	3010A	
720-10843-1	PTLF12WS39 A-D	Р	Solid	3010A	720-26237
720-10843-2	PTLF12WS40 A-D	Р	Solid	3010A	720-26237

Client: ERRG Job Number: 720-10843-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:720-2	6325				
LCS 720-26237/2-B	Lab Control Spike	Р	Solid	6010B	720-26295
LCSD 720-26237/3-B	Lab Control Spike Duplicate	Р	Solid	6010B	720-26295
MB 720-26237/1-B	Method Blank	Р	Solid	6010B	720-26295
720-10820-A-1-G MS	Matrix Spike	Р	Solid	6010B	720-26295
720-10820-A-1-H MSD	Matrix Spike Duplicate	Р	Solid	6010B	720-26295
720-10843-1	PTLF12WS39 A-D	Р	Solid	6010B	720-26295
720-10843-2	PTLF12WS40 A-D	Р	Solid	6010B	720-26295

Report Basis
C = STLC Citrate

P = TCLP

Client: ERRG Job Number: 720-10843-2

Method Blank - Batch: 720-26251

Method: 6010B Preparation: 3005A **STLC Citrate**

Lab Sample ID: MB 720-26250/1-B

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/18/2007 1243 Date Prepared: 09/18/2007 1030

Date Leached: 09/14/2007 1030

Analysis Batch: 720-26276 Prep Batch: 720-26251

Units: mg/L

Instrument ID: Varian ICP Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.50
Chromium	ND		0.50

Leachate Batch: 720-26250

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 720-26251

Method: 6010B Preparation: 3005A **STLC Citrate**

Instrument ID: Varian ICP

5 mL

50 mL

LCS Lab Sample ID: LCS 720-26250/2-B

Client Matrix:

Solid 1.0

Dilution: Date Analyzed:

09/18/2007 1246 Date Prepared: 09/18/2007 1030

09/14/2007 1030 Date Leached:

LCSD Lab Sample ID: LCSD 720-26250/3-B

Solid

Client Matrix:

Dilution: 1.0

Date Analyzed:

Date Prepared:

09/18/2007 1250 09/18/2007 1030

Date Leached: 09/14/2007 1030 Analysis Batch: 720-26276

Prep Batch: 720-26251

Units: mg/L

Leachate Batch: 720-26250

Analysis Batch: 720-26276 Prep Batch: 720-26251

Units: mg/L

Instrument ID: Varian ICP

Lab File ID: N/A

Lab File ID: N/A

Initial Weight/Volume:

Final Weight/Volume:

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

Leachate Batch: 720-26250

% Rec

Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	95	95	80 - 120	1	20		
Chromium	99	98	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10843-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-26251

Method: 6010B Preparation: 3005A

STLC Citrate

MS Lab Sample ID: Client Matrix:

720-10843-1 Solid

Analysis Batch: 720-26276

Instrument ID: Varian ICP Lab File ID: N/A

Dilution:

1.0

Prep Batch: 720-26251

Date Analyzed:

09/18/2007 1253 Date Prepared: 09/18/2007 1030

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10843-1

Client Matrix:

Date Prepared:

Solid

1.0

Dilution: Date Analyzed:

09/18/2007 1257 09/18/2007 1030 Analysis Batch: 720-26276 Instrument ID: Varian ICP Prep Batch: 720-26251 Lab File ID: N/A

> Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	88	89	80 - 120	1	20	
Chromium	97	97	80 - 120	1	20	

Client: ERRG Job Number: 720-10843-2

Method Blank - Batch: 720-26295 Method: 6010B Preparation: 3010A

TCLP

Lab File ID:

N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 50 mL

Lab Sample ID: MB 720-26237/1-B Analysis Batch: 720-26325 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26295 Units: mg/L Dilution: 1.0

Date Analyzed: 09/19/2007 0831 Date Prepared: 09/18/2007 1547

Date Leached: 09/17/2007 2134 Leachate Batch: 720-26237

RL Analyte Result Qual Lead ND 0.50 Chromium ND 0.50

Lab Control Spike/ Method: 6010B Lab Control Spike Duplicate Recovery Report - Batch: 720-26295 Preparation: 3010A **TCLP**

LCS Lab Sample ID: LCS 720-26237/2-B Analysis Batch: 720-26325 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26295 Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL

Date Analyzed: 09/19/2007 0834 Final Weight/Volume: 50 mL

Date Prepared: 09/18/2007 1547 Date Leached: Leachate Batch: 720-26237 09/17/2007 2134

LCSD Lab Sample ID: LCSD 720-26237/3-B Analysis Batch: 720-26325 Instrument ID: Varian ICP

Client Matrix: Solid Prep Batch: 720-26295 Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL Date Analyzed: 09/19/2007 0838

Date Prepared: 09/18/2007 1547

Date Leached: 09/17/2007 2134 Leachate Batch: 720-26237

% Rec. RPD Limit LCS Qual LCSD Qual Analyte LCS LCSD Limit **RPD** Lead 99 97 80 - 120 2 20 Chromium 99 97 80 - 120 2 20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ERRG Job Number: 720-10843-2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-26295

Method: 6010B Preparation: 3010A

TCLP

MS Lab Sample ID: 720-10820-A-1-G MS

Client Matrix: Solid

Dilution: 1.0
Date Analyzed: 09/19

Date Analyzed: 09/19/2007 0850 Date Prepared: 09/18/2007 1547 Analysis Batch: 720-26325 Instrument ID: Varian ICP Prep Batch: 720-26295 Lab File ID: N/A

Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-10820-A-1-H MSD

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/19/2007 0854 Date Prepared: 09/18/2007 1547 Analysis Batch: 720-26325 Instrument ID: Varian ICP Prep Batch: 720-26295 Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 50 mL

% Rec.

Analyte	MS 70.1	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Lead	94	98	75 - 125	3	20	
Chromium	98	101	75 - 125	3	20	

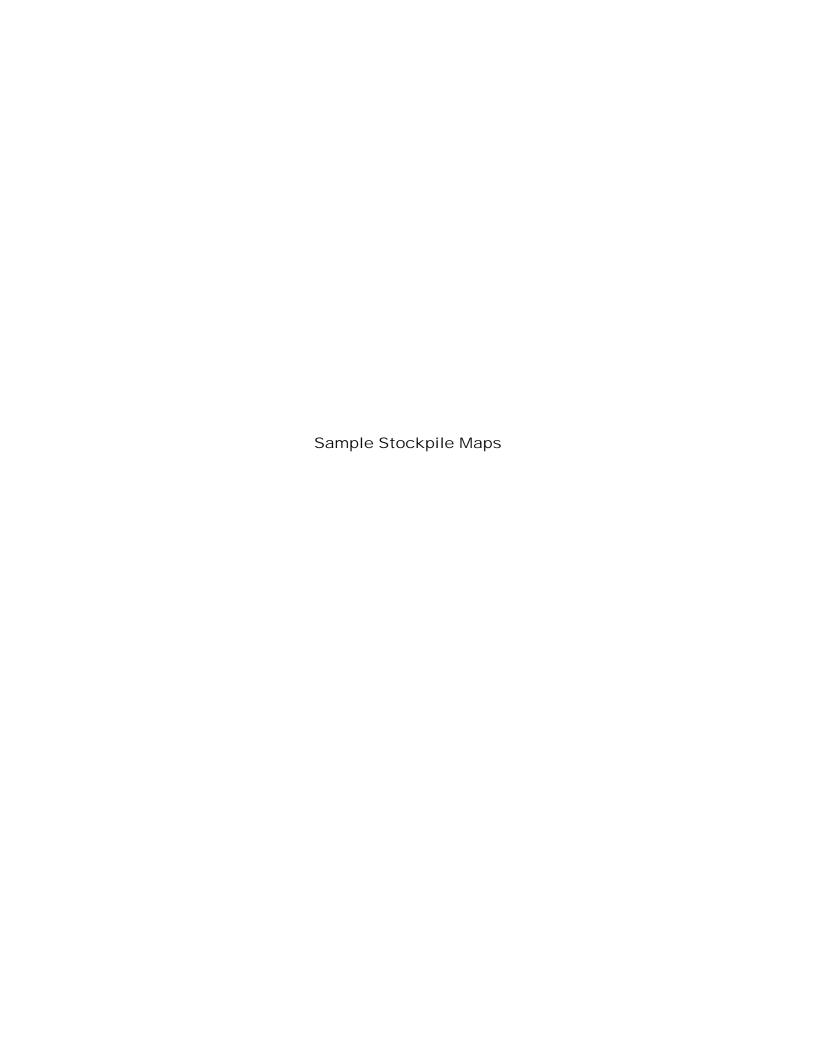
TESTAMERICA San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Plans (925) 484-1919 • Fax: (925) 600-3002
Email: sflogin@stl-inc.com Reference #: 107219 Date 9/5/07 Page 1 of Analysis Request Report To EPA 200.8/6020 Metals: 🗆 Lead 🗇 LUFT 🗇 RCRA Fuel Tests EPA 82508: CI Gas: CI 8TEX CI Five Oxyenates CI DCA, EDB CI Volatile Organics GC/MS (VOCs) □ EPA 8260B □ 624 Hexavajent Chromium pH (24h hold time for H₂O) ☐ 8015/8021 ☐ 82508 ☐ BTEX ☐ MTBE D SO, D NO, D NO, C Lead tor Company: ERRG DD Purgeable Aromatics BTEX EPA - □ 8021 □ 8263B Address: 185 Moston (V \Box CAM17 Metals (EPA 6010/7470/7471) TEPH EPA 8015M® □ mivolatiles GC/MS EPA 8270 □ 625 Low Level Metals by E (ICP-MS): W.E.T (STLC) TCLP Email: Phone: Spec Cond. TSS Sampled By: Bill To: 5 10 П FRRG TAA TPH EPA - [Pesticides PCBs STIC Attn: Pres 00 Sample ID Date Time пх PTLF12 W539 A-D 5 PTLFIZWS 40 A-D ATTRIBUTE 2) Relinquished by: 3) Relinquished by: 1) Relinquished by: Project Info. Sample Receipt Project Name: Prosidio - AIS # of Containers: Time Signature Time Time Signature Signature Project#: Head Space: 9/15/02 Printed Name Printed Name Date Printed Name Date Date Temp: 27-178 ERRC Credit Card#: Conforms to record: Company Company Company 3) Received by: 1) Received by: 2) Received by: 5 72h 48h 24h Other: Signature Time Signature Time Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF Special Instructions / Comments: ☐ Global (D) Marceldellera Printed Name Printed Name Date Printed Name Date See Terms and Conditions on reverse Company Company Company *TestAmerica SF reports 8015M from C_{ir}C₂₄ (Industry norm). Default for 8015B is C10-C28 Ray 05/04

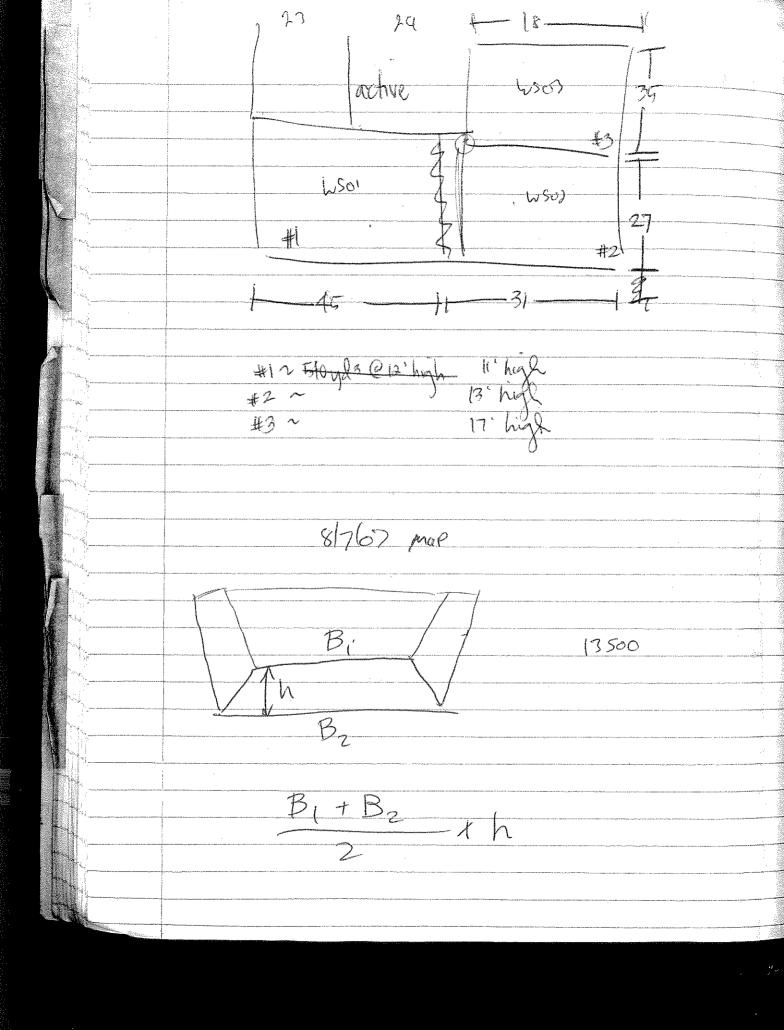
LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERRG Job Number: 720-10843-2

Login Number: 10843

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	





ENGINEERING/REMEDIATION RESOURCES GROUP, INC.

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ENGINEERING/REMEDIATION RESOURCES GROUP, INC. BY 60050 DATE 9/12/07 CLIENT ____ OF__ SHEET__ DESCRIPTION Haz Waste Stockp. le Sangling JOB NO. 27128 CHECKED BY outto New Merchart PTLF1213336 WIZ PTLF12W535 WW 20741 TO Lincoln PTLF 12W534 & sample PTLF 12WS33 9/10 Not to scale

ENGINEERING/REMEDIATION RESOURCES GROUP, INC.

ERRG

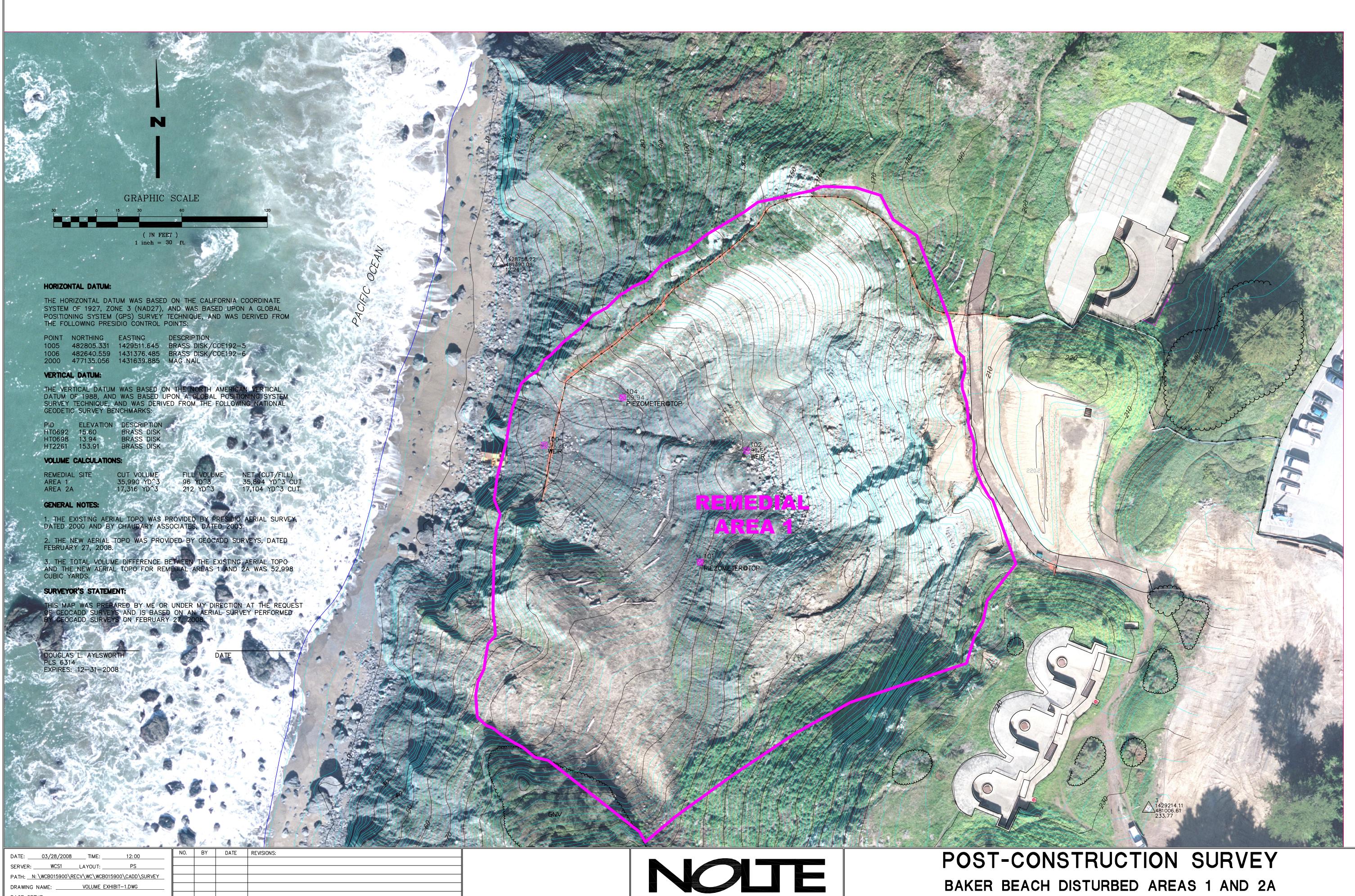
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APPENDIX F

FINAL SURVEY

APPENDIX F CONTENTS

Sheet 1 Post Construction Survey Baker Beach Disturbed Areas 1 and 2A Sheet 2 Post Construction Survey Baker Beach Disturbed Areas 1 and 2A



DESIGNER: KVV PROJ. MGR: DLA

CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

925.934.8060 TEL 925.939.5451 FAX

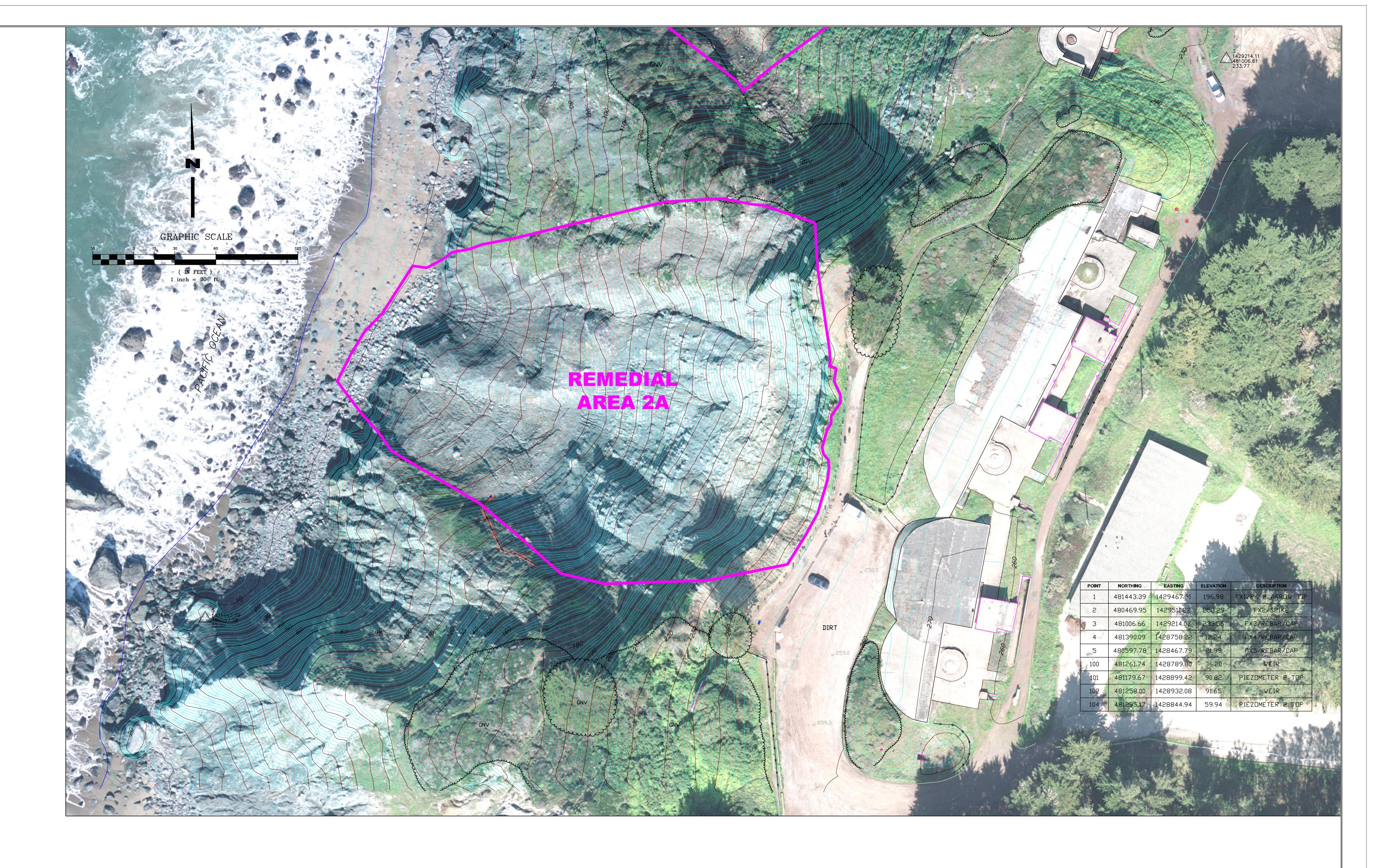
BAKER BEACH DISTURBED AREAS 1 AND 2A PRESIDIO SAN FRANCISCO, CA

SCALE VERTICAL: 1"= NONE HORIZONTAL: 1"= 30'

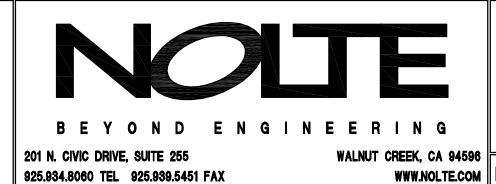
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WWW.NOLTE.COM PREPARED FOR: PRESIDIO

DATE SUBMITTED: 03/28/08



DATE: 03/28/2008 TIME: 12:00	NO.	BY	DATE	REVISIONS:
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CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these				
plans. All changes to the plans must b	e in wr	riting ar	nd must b	e approved by the preparer of these plans.

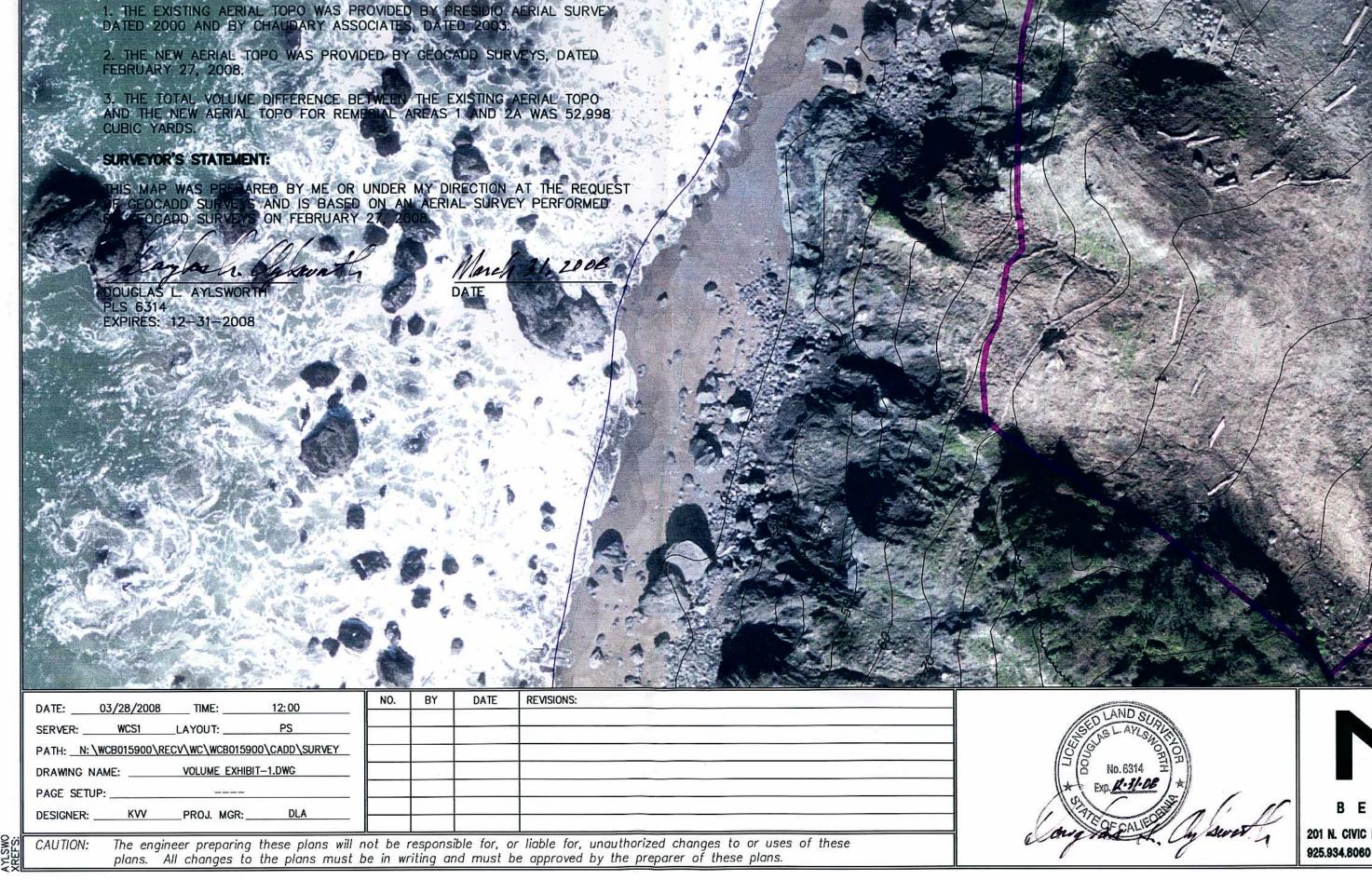


POST-CONSTRUCTION SURVEY BAKER BEACH DISTURBED AREAS 1 AND 2A PRESIDIO SAN FRANCISCO, CA

VERTICAL: 1"= NONE HORIZONTAL: 1"= 30' JOB NUMBER WCB015900

WALNUT CREEK, CA 94596
WWW.NOLTE.COM PREPARED FOR: PRESIDIO

Signature Pages
Signed copies of the surveys are on file with the Trust

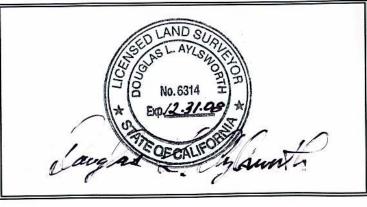


201 N. CIVIC DR 925.934.8060 TE



DATE: 03/28/2008 TIME: 12:00	NO.	BY	DATE	REVISIONS:
SERVER: WCS1 LAYOUT: PS				
PATH: N:\WCB015900\RECV\WC\WCB015900\CADD\SURVEY				
DRAWING NAME: VOLUME EXHIBIT-2.DWG				
PAGE SETUP:				
DESIGNER:KVVPROJ. MGR:DLA				

CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.





201 N. CIVIC DRIVE, SUITE 255 925.934.8060 TEL 925.939.5451 FAX

Piezometer and Weir Elevations Conversion to PLLW

Station Name	Elevation (NAVD 1988)	Elevation (PLLW)	Comments:
BB1SW200	91.65	92.02	Upper Weir
BB1SW201	36.20	36.57	Lower Weir
BB1PZ201	90.63	91.00	
BB1PZ202	59.94	60.31	Removed

Notes:

Vertical Datum: The vertical datum was based on the north American vertical datum of 1988, and was based upon a global positioning system survey technique, and was derived from the

following national geodetic survey benchmarks.

PID	Elevation	Description
HT0692	15.6	Brass Disk
HT0698	13.94	Brass Disk
HT2261	153.91	Brass Disk

The new aerial topo was provided by Geocadd Surveys, Febuary 27, 2008

Conversion provided by Hans Barnaal of the Presidio Trust.

Conversion formula: PLLW = NAVD 88 + 0.37

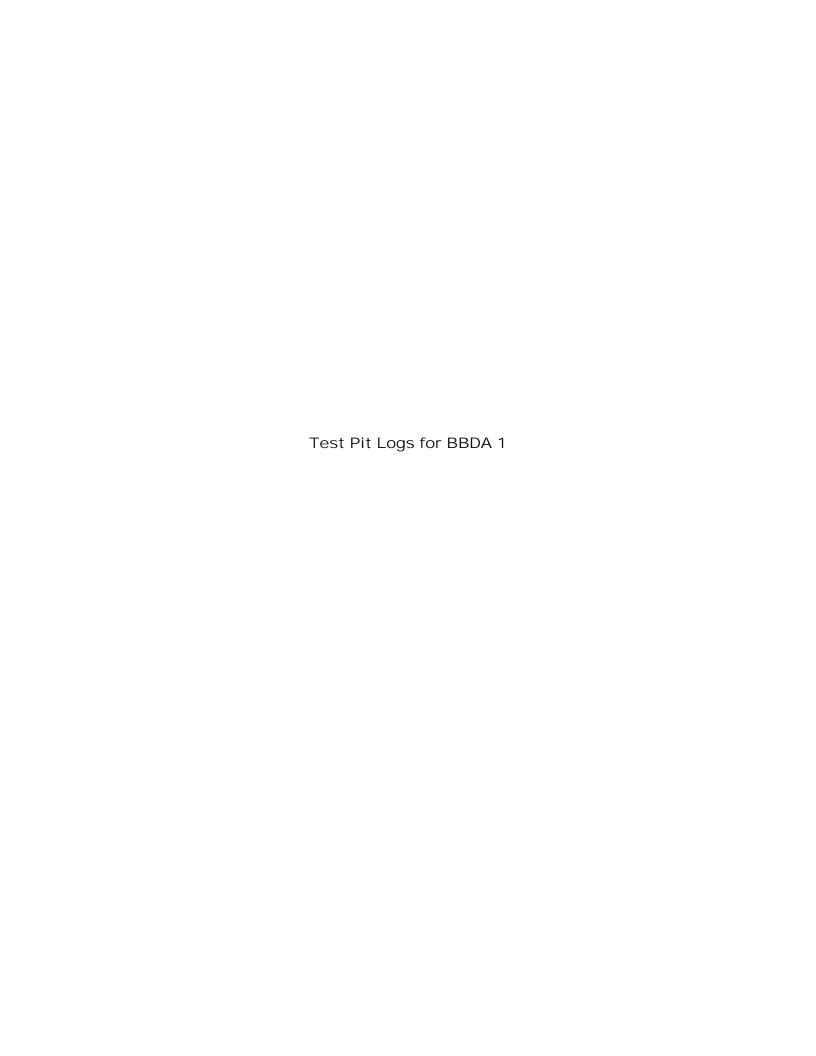
Checked: J. Hanzel-Durbin Approved: M. Heassler

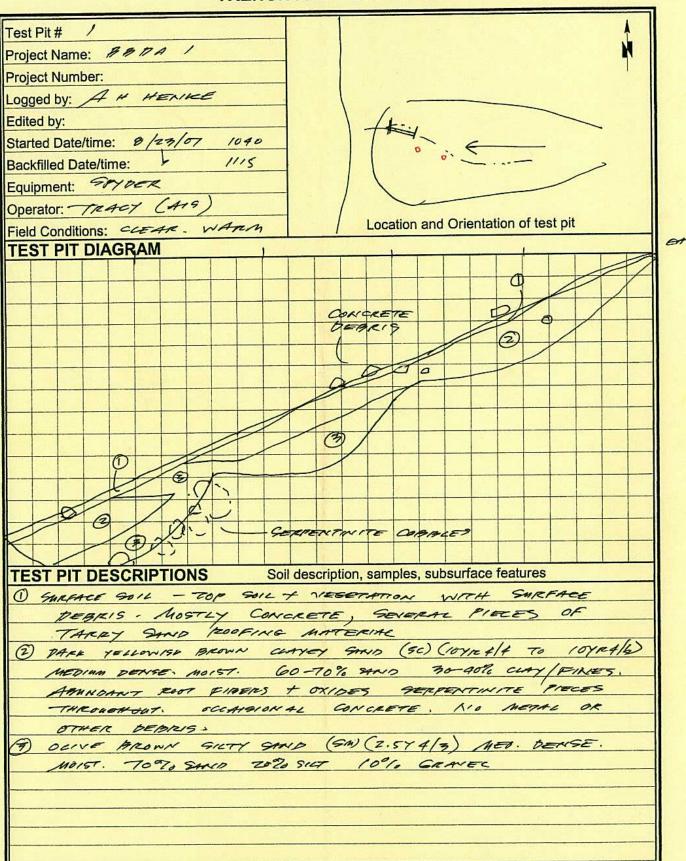
APPENDIX G

TRENCH LOGS

APPENDIX G CONTENTS

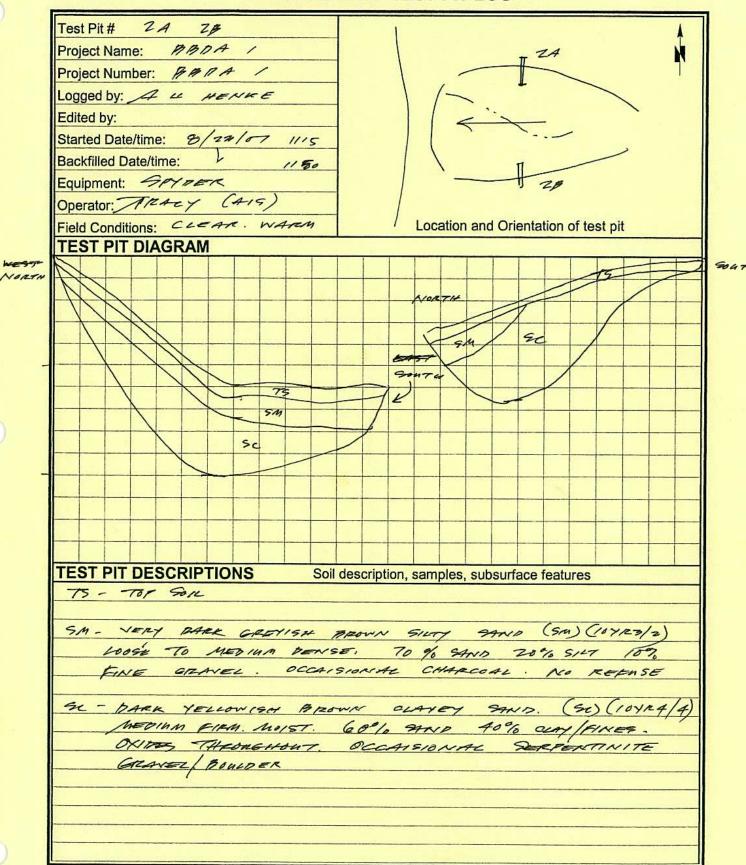
Test Pit Logs for BBDA 1 Test Pit Logs for BBDA 2A BBDA 1 Aerial Photograph, August 22. 2007, showing BBDA 1 trench locations





WEST





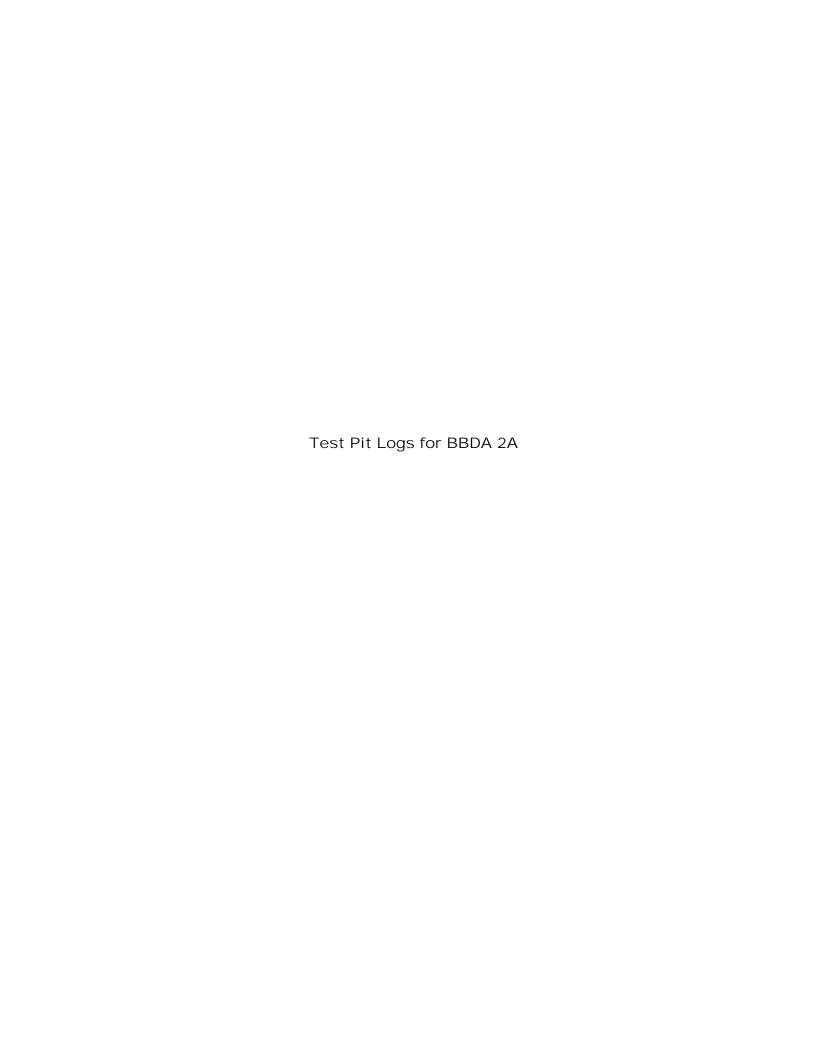


GOUTH

	AND THE PROPERTY OF THE CONTRACT OF THE CONTRA
Test Pit # 多	1
Project Name: PAPDA- /	N N
Project Number:	
Logged by: A HENKE	
Edited by:	
Started Date/time: 8/24/07: 1150 Backfilled Date/time: 1200	
Equipment: SPYDER	
Operator: TRACY (A19	
Field Conditions: CLEAR. WARM.	Location and Orientation of test pit
TEST PIT DIAGRAM	
- DEBRIS ON SURFACE	
13	NORTH
5/4/2	
50	
S.P.	
TEST PIT DESCRIPTIONS So	il description, samples, subsurface features
	Serce ON STREET SLAFF
	7/62/ 30/2
SM - DARA BROWN SIETY S	ANT . LOOSE . W/ CORPLES
	ET CAND. TIGHT. WELL-
CONFORTATED OCCA	ISTORAL GRAVET CORREE.



Test Pit #	A
Project Name: #BDA /	N N
Project Number:	
Logged by: A HENKE	Tr-4
Edited by:	
Started Date/time: 8/27/07 /205	
Backfilled Date/time: /220	
Equipment: SPYDER	
Operator: TRACY (415)	
Field Conditions: CLEAR . WARM	Location and Orientation of test pit
TEST PIT DIAGRAM	
	1
	\$41 2
	e. C.
	SELFACE AKEA
	(WET. Kro
	I description, samples, subsurface features
TS-TOPSOIL GOME	GLASS, PLASTIC CELOPHANE-
LIKELY CONTEMPORAL	7.
SM. BROWN GILTY SAT	ND (5M) (107R4/3) LOSE. MOICT
	40 20% 9117 WITH SERF-
	5 THROUGHOUT . KNOT WELL-
CONTROLODATED.	
	MURICE GLAVELLY LEAN CLAY (CL)
CLAY FINES . 30% G	FIRM. MOIST TO WET. 60%
7/100-0	The same

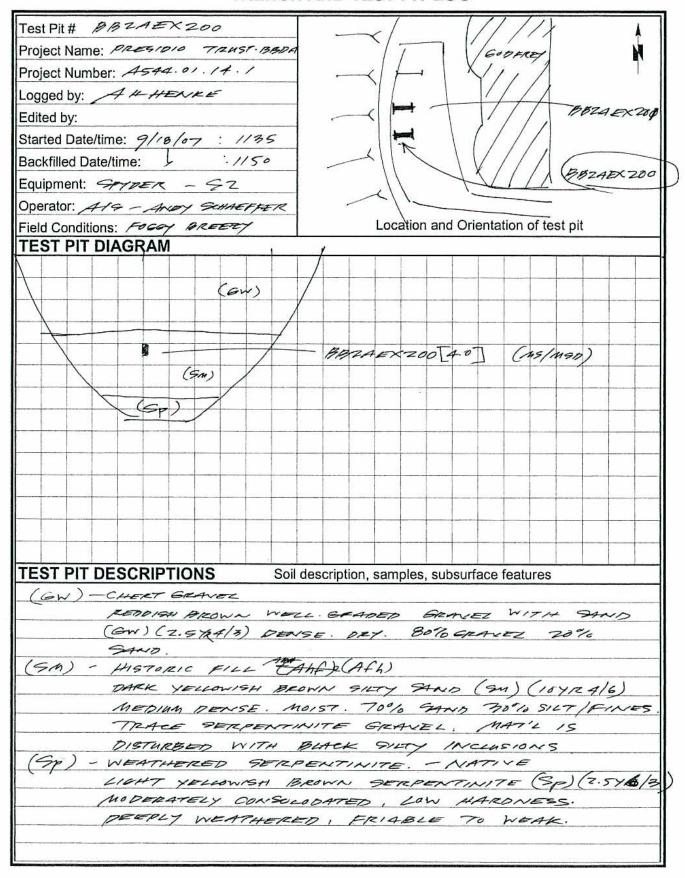




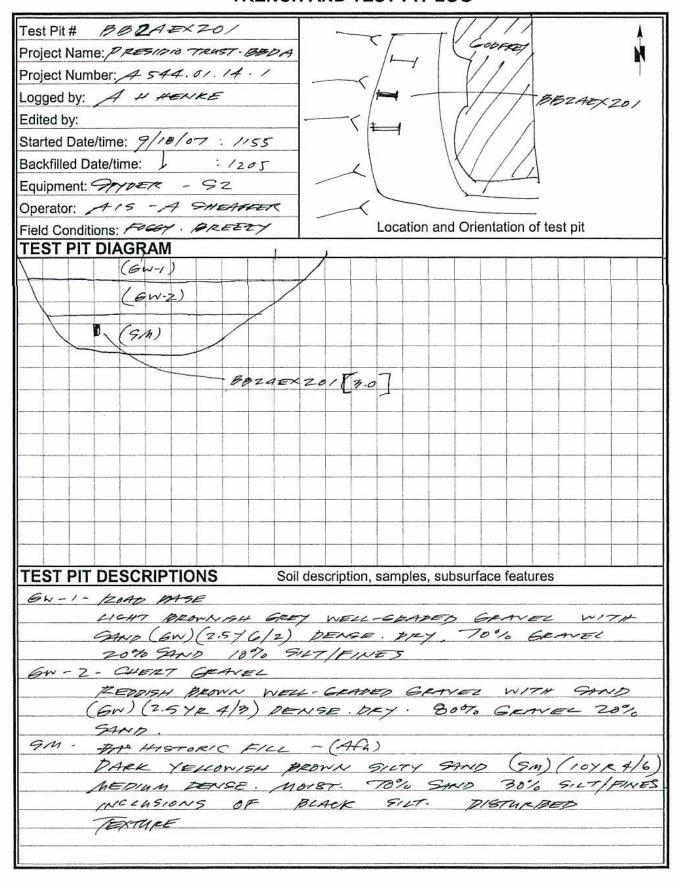
Nichols Consulting Engineers, Chtd. 1885 S Arlington Ave, Suite 111 Reno, NV 89509 Tel: 775.329.4955 Fax: 775.329.5098

Sheet _____ of _____

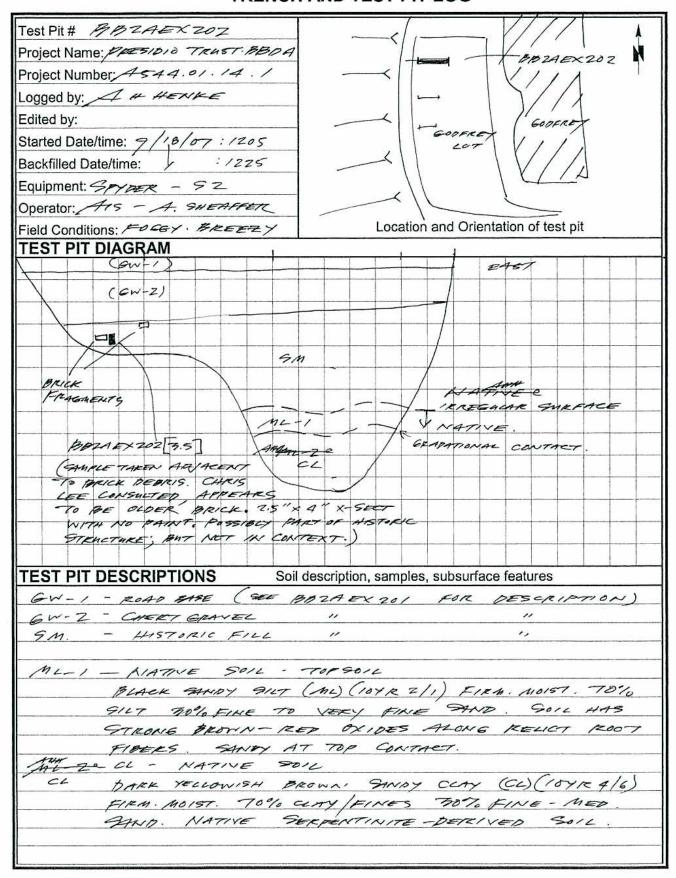
Desirate PRESIDIO	TRUST - BBZA - EXC. LOCATI	ons Job No: 4 544.01.14.1
Project: PRESIDIO TRUST - BBZA - EXC. LOCATIONS Subject: FIELD INVESTIGATION DAILY REPORT		Date: 9/10/07
Subject: FIELD INVESTIGATION DAILY KET OKT		TO: 6 ANGELL
Equipment Hours:	F.E. Time from: to:	By: A H HENKE
Project:PRESIDIO = TRUST = BB2A = EXC. 20 CATOO SONOT STATE		
BB2AEX201 BB2AEX200 BB2AEX200 BB2ATPIOB GODFRE PARKIN LOT	PATTER GODER	LOCATIONS APPROXIMATE ± 1"2 50' Initial













All locations are approximate.



Trench Locations Construction Completion Report Baker Beach Disturbed Areas 1 and 2A Landfill Removal Presidio of San Francisco, CA

CHECKED APPROVED MJH DATE

8/08

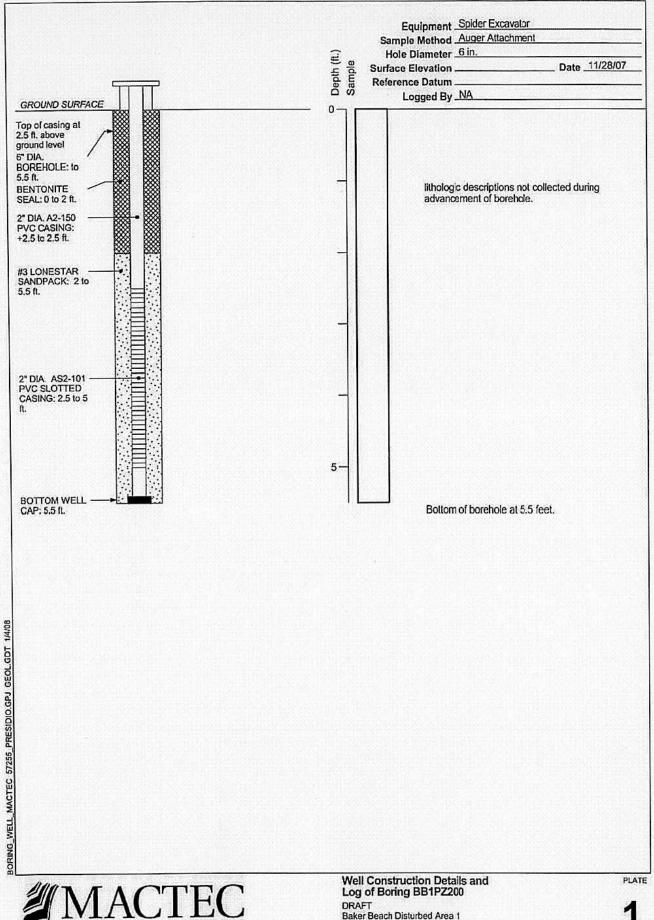
G-1

PROJECT NUMBER 4084075118 4084075118012.DWG 20081027.1350

APPENDIX H PIEZOMETER CONSTRUCTION DETAILS AND SAMPLING FORMS

APPENDIX H CONTENTS

Plate 1 - Well Construction Details and log of Boring BB1PZ200 Plate 2 - Well Construction Details and Log of Boring BB1PZ201 Plate 2 - Well Construction Details and Log of Boring BB1PZ202 Groundwater Sampling Forms



Presidio of San Francisco, California

DRAWN WJF

JOB NUMBER 4084075118 03.01 CHECKED

CHCK'D DATE 1/08

APPROVED HGM

APPRVD DATE Aug 2008 Page 1 of 1

	Equipment Spider Excavator Sample Method Auger Attachment Hole Diameter 6 in. Surface Elevation Date 11/28/0 Reference Datum Logged By NA
o of casing at ft. above und level DIA. REHOLE: to	0 Cogged By 14.
ft. NTONITE AL: 0 to 2 ft. DIA, A2-150 C CASING: 5 to 2.5 ft.	lithologic descriptions not collected during advancement of borehole.
LONESTAR NDPACK: 2 to	
DIA AS2-101	
DTTOM WELL ——————————————————————————————————	5 — Bottom of borehole at 5.5 feet.
MACTEC	Well Construction Details and Log of Boring BB1PZ201 DRAFT

Presidio of San Francisco, California

CHECKED CHCK'D DATE

1/08

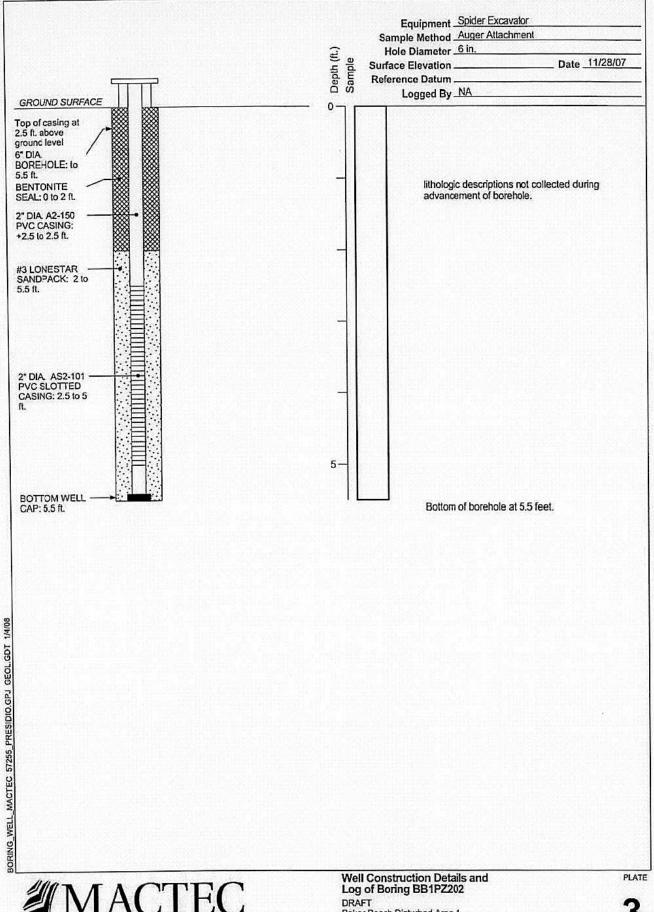
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MACTEC

Baker Beach Disturbed Area 1 Presidio of San Francisco, California

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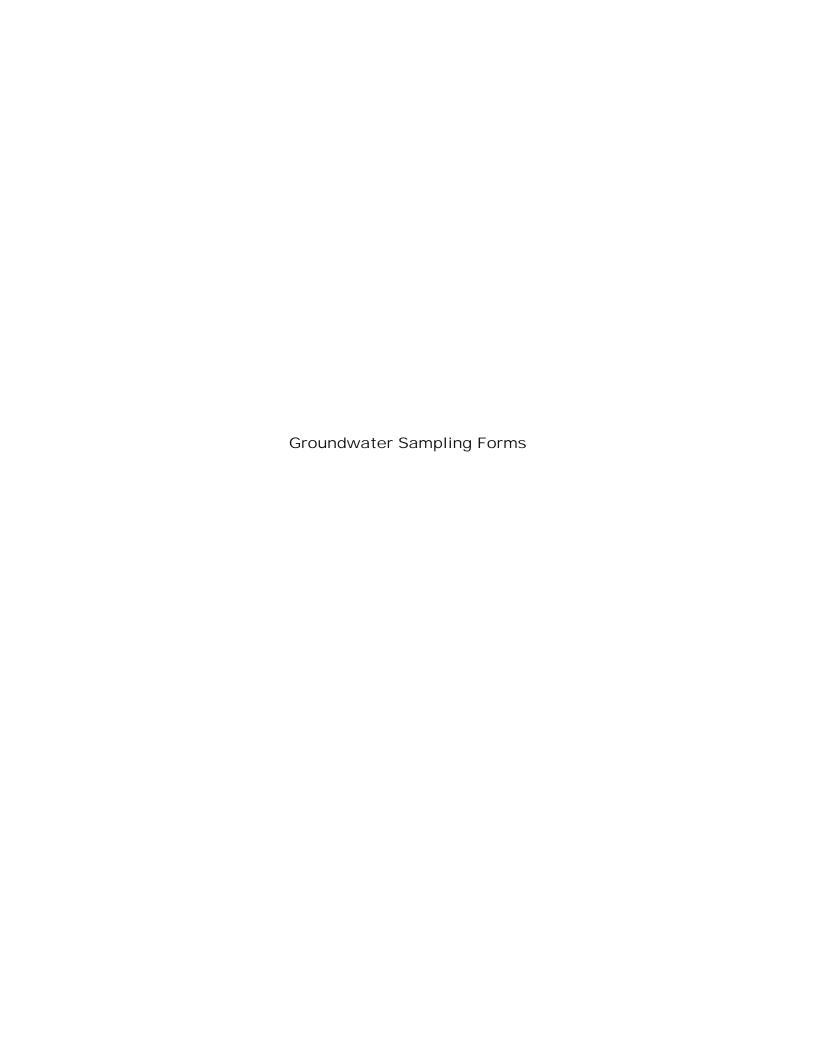
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Page 1 of 1







WELL DEVELOPMENT DATA SHEET

	61			Casing Diameter/Type	ב''	
1 TOTCOU CITE I TOTTO	12-2			Borehole Diameter	. 6"	
Date(s) of Installation				Screened Interval(s)	8-4-5	Broc 2.5 stiens
Date(s) of Development /	130107			Total Length of Well C	asing 9.5	
Personnel/Company	R ADN A	luctec		Measured Total Depth		8.03
Type of Rig Used	Pa.Kr			Initial Depth to Water	5.23	
7				(TOC)		Time
				Stabilized Depth to Wa		Time
	<u>OPMENT</u> UIPMENT TYPE/C/	PACITY		PURGE \	OLUME CALCUL	ATION
Jetting (Airlift)				Casing Volume: 2.	2 Ft. of	water
Surge Block				x 6.1	Gallon	s/Foot
				= 0.7	3 6 Gallon	s per Single Casing Volume
A CONTRACTOR OF THE CONTRACTOR				Sand Pack		Ft. of Saturated Sand Pack
Other				x		s/Foot (borehole diameter)
				=	Gallor	s (in borehole)
FLUID	SADDED				Gallor	s of Casing Volume
	Call					Assuming porosity = 30%) is Within Sand Pack
Lost Drilling Fluid:						Gallons (Casing Vol. +
Lost Purge Water:				Single Funge volume.		Sand Pack Vol. + Fluids Added)
Water During Installation: Total Fluids Added:				Minimum Purge Volun	ne:	The state of the s
Source of Added Water:	Cui	Ono		Actual Purge Volume:		
Sample Collected of Added \		N		Volume Measured by:		
Sample Designation of Adde	d Water:	7428		Rate of Development	Gallo	ns/Minute (Hour, Day)
Cumple Design					-	@ Ft. (Below Grd.)
				Immiscible Phases Pro	esent: Y N	Thickness
		T =	l pH	Specific*	Turbidity	D.O., Ciarity, Odor, PID
Development Criteria:			I DH	Specific	1 HEIBERT	I D.O., Cigity, Odia, FID
Total Volume Rate	of Time	Temp	Pit	Conductance	(NTU)	Readings, Other
Total Volume Rate of Discharged Discharged	of Time		6.9	9/4 mm/ 1/2 mm		Readings, Other
Total Volume Rate of	of Time	oc	6.9	Conductance	(NTU)	
Total Volume Rate of Discharged Discharged Discharged Discharged	of Time	11.7	6.9	Conductance	(NTU)	Readings, Other
Total Volume Rate of Discharged Discharged in I Fiel Dewatte.cl DTW=1.03	of Time ge 0825 /4541	11.7	6.9	Conductance	(NTU)	Readings, Other
Total Volume Rate of Discharged Discharged Discharged Discharged	of Time rge 0825 14591 0836	11.7	6.9	Conductance	(NTU)	Readings, Other
Total Volume Discharged Discharged Discharged Discharged Discharged Discharged Dewards 1,03	of Time rge 0825 14591 0836	11.7	6.9	Conductance	(NTU)	Readings, Other
Total Volume Discharged Discharged Discharged Discharged Discharged Discharged Dewards 1,03	of Time rge 0825 14591 0836	11.7	6.9	Conductance	(NTU)	Readings, Other
Total Volume Rate of Discharged Discharged in I Fiel Ocurto-cl OTW=1.03	of Time rge 0825 14591 0836	11.7	6.9	Conductance	(NTU)	Readings, Other
Total Volume Discharged Discharged Discharged Discharged Discharged Discharged Dewards 1,03	of Time rge 0825 14591 0836	11.7	6.9	Conductance	(NTU)	Readings, Other

Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

	Well No.:	B112 200	Ð .			_ Day/Da	te:12/5/6-	alako	PRESIDIO TRUSY
	Site/Project	Name:	661	fere Sam	yly				
	Organic Va	apor Conce	ntrations	Top of C	asing:	ppm	Breathing Zo	onepp	om
	Depth to bo	ettom:	8	ft. below top	17			Initial D.O.	Readings
	Depth to wa	ater:	2.0	ft. below top	o of casing	grander	الممدر	Position in Sc	reened Interval
	25 400 (400 (400 (400 (400 (400 (400 (400	8	Water Colum			Purge Volun		Top:	mg/L
	X 2-inch	n well		ft. x 0.163 g	jal/ft x 3 =		gal.	Middle:	mg/L
	4-inch	ı well		ft. x 0.652 g	gal/ft x 3 =		gal.	Bottom:	mg/L
	inch	n well		ft. x	gal/ft x 3 =		gal.		
	Method of E	Extraction:		Disposable	Bailer		Other:		
				Grour	ndwater Par	ameters			
		Volume	Town	Specific	0 11 14	Dissolved		Turkiditu	
	Time	Purged (gal.)	Temp. (°C)	Conductivity (mS/cm)	Salinity (ppt)	Oxygen (mg/L)	рН	Turbidity (NTU)	Other
ustrelio	1030	(94)			31127	9.7%			
Chitan							***********		
						-			
						-			
	<u> </u>	Field	measuremen	t	L	<u> </u>	<u> </u>		
	Purged Dry?	equ	iipment used						
				Ground	water Sample		rancport Data		
	An	Off-Site Lab	ern	 	Off-Site Lab	Fate and 1	ransport Data	eld Test Kit Anal	/ses
	Metals	Cir-Site i.ab	-Filtered	Anions		1	Alkalinity		
	PCBs		, marea	M/E/E			Fe ²⁺		F-y/n
	SVOCs]	Sulfide		1	Mn ²⁺		F-y/n
	TPH-e			TDS				/ / VEIL	,
	TPH-p		-	VOCs		_		(yes/no) filtere turbidity > 100	
	VOCs	<u> </u>				Chairman	L		
	Sampler(s)						i	215-100	1230
	Sample Nu	mber(s): B	816W20			Sample Da	te/Time:	alio los	1030
	Sample Co	llection Met	hod:	Disposable	Bailer		Other C'		
	QA/QC Sai	mple(s)?		None		Field Duplic	cate		MS/MSD
		le Number:_ :			and and an array			e:	
	2 (.1	d 200	AL, al	1 pely	0126	les los H&-16.			
	3 41	25 5	12/10/0	, 00	de 12/10	100	10		
	9111	2/12/2	1	bute	Poly he	H6-16.	31-110	Chent	of.
	1	2/13/0						Sheet)1

			1			126/	260	and the same
Vell No.: 66	1 12 20		MWO No.	<u> </u>	_ Day/Da	te:121	161-5	PRESIDIO TRUST
ite/Project N	lame:	obi P	ezo Sam	<i>y 11</i> 5	-			
rganic Vap	or Conce	ntrations	Top of Ca	sing:	_ppm	Breathing Z	onepp	m
epth to botto	om:	8	ft. below top	of casing			Initial D.O.	Readings
epth to wate		556	ft. below top	of casing			Position in Sci	eened Interval
100000		Water Colum			Purge Volum	ne .	Top:	mg/L
2-inch v	vell		ft. x 0.163 g	al/ft x 3 =		gal.	Middle:	mg/L
4-inch v	vell		ft. x 0.652 g	al/ft x 3 =		gal.	Bottom:	mg/L
inch v	vell		ft. x g	jal/ft x 3 =		gal.		
ethod of Ex	traction:		Disposable I	Bailer		Other:	10 = 500 %	
			Groun	dwater Para	ameters			
Time	Volume Purged (gal.)	Temp. (°C)	Specific Conductivity (mS/cm)	Salinity (ppt)	Dissolved Oxygen (mg/L)	рН	Turbidity (NTU)	Other
				N. S. C. C. C. C. C. C. C. C. C. C. C. C. C.				
urged Dry?		neasuremen nipment used						
			Groundw	ater Samples	Collected	-		
Analy	tes of Cond	ern			Fate and T	ransport Data		
	Off-Site Lab		<u> </u>	Ott-Site Lab	1		eld Test Kit Analy	ses
letals		-Filtered	Anions M/E/E			Alkalinity Fe ²⁺	-	F-y/n
CBs VOCs		1	Sulfide		1	Mn ²⁺		F-y/n
PH-e]	TDS					
PH-p			VOCs]	5.50	(yes/no) filtere turbidity > 100	7.1
OCs _	· NC					I mer where	21/10	1210 0835 10
ampler(s):_	e l	111.00	4				1/10/0>	100
ample Num			Disposable I	Railer	Sample Da	Other:	Reast V	CC CC
tion the start b ound of the section of the		iou. []Disposable i]None		Field Duplic			MS/MSD
A/QC Samp up. Sample			THOUG		Dup, Samp			
omments:	u 2	is As d	- velolo	2				
× 0.1.	m s	to r-	merione HG	6 di	21000			
711	112 100	1/200	k H6	-1631	-1120	Distale -	Sheet o	f
٠٠	10000	,		4150	B all	TOS Cr.	tanich,	A14
от Сейранна до	gsagade Lodeno	s teForm to stay	Sampleylog		100	p 104-	2 P Pory 6	Pil Filte

Well No.: /	BIPZ:	入02	MWO No.	:	_ Day/Da	te: IZlic b	7	PRESIDIO TRUSY
Site/Project	Name:		dece					
Organic Va	por Conce	ntrations	Top of Ca	asing:	_ppm	Breathing Zo	onepp	om
Depth to bo	ttom:	8	ft. below top	of casing			Initial D.O.	Readings
Depth to wa	iter:	4.95	ft. below top	of casing			Position in Sc	reened Interval
	,	Water Colum	n		Purge Volum	ne	Top:	mg/L
λ 2-inch	well		ft. x 0.163 g			gal.	874 200	mg/L
4-inch	well		ft. x 0.652 g			gal.	Bottom:	mg/L
inch	well]ft. x !	$gal/ft \times 3 =$	L	gal.		
Method of E	extraction:		Disposable	Bailer		Other:		
			Grour	ndwater Para	ameters			
	Volume	Temp.	Specific Conductivity	Salinity	Dissolved Oxygen		Turbidity	
Time	Purged (gal.)	(°C)	(mS/cm)	(ppt)	(mg/L)	рН	(NTU)	Other
L	Field	measuremen	l		1			
Purged Dry?	equ	iipment used						
			Ground	water Samples		ransport Data		
An	Off-Site Lab	ern	 -	Or:-Site Lab	rate and 1		ield Test Kit Anal	yses
Metals	ON-ONE FUE	-Filtered	Anions			Alkalinity		
PCBs	400000000		M/E/E			Fe ²⁺		F-y/n
SVOCs		1	Sulfide			Mn ² *	L	F-y/n
TPH-e TPH-p		1	TDS VOCs			F-v/n= note	(yes/no) filtere	ed samples.
VOCs						THE STATE OF STREET	turbidity > 100	
Sampler(s)	· uk							
See No. of the State of the Sta	mber(s): <i>[</i>	7616141	0)		Sample Da	te/Time	1345	aliolos
	llection Met		Disposable	Bailer	火	Other:	erist-1	aliolos
QA/QC Sar			None		Field Dupli		when the contract of the	MS/MSD
	le Number:	L		10-1-10-10-10-10-10-10-10-10-10-10-10-10	Dup. Samp	le Date/Tim	ne:	
Comments			_	4				12.00
	2	lity c	8 300	100	16 1631	+		
	12	113/00	-114	5	0.10.00	ctab		
			2 cites	S tot	46 1631 20131 on	8	Sheet	of

Well No.: B	biswaoo		MWO No.		_ Day/Da	te: 12/10	<u>lvn</u>	PRESIDIO TRUST	
Site/Project	Name: BB	I weir :	sampling			30343110KUUU			
Organic Va			Top of Ca	sing:	_ppm [3reathing Z	onepr	om	
Depth to bot	tom:		ft. below top	of casing	NH.	6	Initial D.O.	Readings	
Depth to wat			ft. below top	of casing	in clemente		Position in Screened Interval		
Frankeria (1996) (1997) (1996) - 179 - 1776)		Water Colum	nn	Purge Volume			Top:mg/L		
2-inch	well		ft. x 0.163 g	al/ft x 3 =		gal.	Middle:	mg/L	
4-inch	well		ft. x 0.652 g	al/ft x 3 =		gal.	Bottom:	mg/L	
inch	well		ft. x g	al/ft x 3 =		gal.			
Method of E	ethod of Extraction: Disposable Bailer X Other: Pority Itic fund						i fund		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Groun	dwater Par	ameters				
Time	Volume Purged (gal.)	Temp. (°C)	Specific Conductivity (mS/cm)	Salinity (ppt)	Dissolved Oxygen (mg/L)	рН	Turbidity (NTU)	Other	
	NIA	8.6	23 1		10.84	8.16	21.6		
०५३०	/ N		1				- D.C U		
			-				 		
			-				-		
		<u> </u>			<u> </u>	L	<u> </u>		
Purged Dry?	E	measuremen Jipment used							
r diged bij i				ater Sample:	s Collected				
Ana	alytes of Cond	ern	1			ransport Data			
	Off-Site I ab			Ott-Site Lab		F	ield Test Kit Anal	yses	
Metals	T80]-Filtered	Anions	V		Alkalinity			
PCBs	V		M/E/E			Fe ²⁺ Mn ²⁺		F-y/n	
SVOCs	V		Sulfide	V	-	ivin	L	F-y/n	
TPH-e			TDS VOCs		4	E wh= noto	(yes/no) filtere	salames be	
TPH-p	V		Ivocs [J		turbidity > 10		
VOCs			1			I mor miore			
Sampler(s):		AN				*****			
Sample Nur	mber(s):	BBISW	400		Sample Da	te/Time:4	\$110107 cv~st~16	<i>6830</i>	
Sample Col			Disposable I	Bailer	X	Other: P	evastalf	reporp	
QA/QC San			None		Field Duplic		70-22-22-22-22-22-22-22-22-22-22-22-22-22	MS/MSD	
Dup. Sampl	la Numbar:	000 1	2/10/07		Dup. Samp	le Date/Tim	ne:/2/10	100 0 430	
Comments:	: . /	6-	collection	1 3 5	offer Fi	HEI	63 1 (n	ylmso)	
	14/13	10)		i s	0/111-)			•	

Sheet ___ of ___

Well No.:	BBISWE	201	MWO No		_ Day/Da	ate: 12/v	107	THE PRESENCE TRUST
			veir 50	oupling				
Organic Va	por Conce	ntrations	Top of C	asing:	_ppm	Breathing Z	onepp	m_
Depth to bo	ater:	Water Colum	ft. below top		Purge Volur	me	The second second second	Readings reened Interval mg/L
2-inch 4-inch inch	well well		ft. x 0.163 g ft. x 0.652 g ft. x g	al/ft x 3 = gal/ft x 3 =		gal. gal. gal.	Middle:	mg/L
Method of E	Extraction:	L	Disposable	Bailer		Other:		
				dwater Par				
Time	Volume Purged (gal.)	Temp. (°C)	Specific Conductivity (mS/cm)	Salinity (ppt)	Dissolved Oxygen (mg/L)	рН	Turbidity (NTU)	Other
1200					8.2			
Purged Dry?	5 PAIN-PAINS	measuremen ipment used						
			Groundy	vater Samples	Collected			
An	alytes of Cond	ern			Fate and T	ransport Data		
Metals PCBs SVOCs TPH-e TPH-p VOCs	Off-Site Lab	-Filtered	Anions M/E/E Sulfide TDS VOCs	Ott-Site Lab		Alkalinity Fe ²⁺ Mn ²⁺ F-y/n= note		-y/n -y/n d samples.
QA/QC Sar	mber(s): llection Metl mple(s)?		ン プロisposable I None	Bailer	Field Duplic	Other: f cate	-	120C MS/MSD
Dup. Samp Comments:	le Number:_ :				Dup. Samp	ie Date/Tim	e:	

Sheet ___ of ___

			MONITORIN	IG WELL S	AMPLING L	OG 7.4	,	f(Cc
Well No.:	BBIPZ ZO	2	MWO No).:	_ Day/Da	ate: 12/26/	07	PRESIDIO TRUS
Site/Projec	ct Name: <u>}</u>	BDA 1		5				
Organic V	apor Conce	ntrations	Top of C	asing:	_ppm	Breathing Z	onep	pm
Depth to be	ottom:		ft. below to	p of casing			Initial D.O.	Readings
Depth to w	ater:	3,81	ft. below to	p of casing			Position in So	creened Interval
		Water Colum			Purge Volur	ne	10-1-0-20000000000000000000000000000000	mg/l
2-inc	h well		ft. x 0.163 g	gal/ft x 3 =		gal.	Middle:	mg/l
4-inc	h well		ft. x 0.652 g	gal/ft x 3 =		gal.	Bottom:	110000000000000000000000000000000000000
inc	h well		ft. x	23		gal.		
Method of	Extraction:		Disposable	Bailer	\times	Other:per	istaltic	pump
			Grour	ndwater Para	meters			·
	Volume	100	Specific	See Valve	Dissolved			5
Time	Purged	Temp.	Conductivity		Oxygen		Turbidity	Redox
Time	-(gal.) L	(°C)	(mS/cm)	(ppt)	(mg/L)	pН	(NTU)	Other
1100	2	13.2	4.89		0.78	8.18	12.2	-130
								N-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
L		neasurement		31				
Purged Dry?	equ	ipment used:	YSI 63	, HAICHZ	? 100, YS:	55,0	Joh SAZ	.16
			Groundy	vater Samples		1		
An	Off-Site Lab	ern		Off-Site Lab	Fate and 17	ansport Data	ld Test Kit Analy	
Metals	OII-Site 1.ab	-Filtered	Anions	OI:-Sile Lab		Alkalinity	id Test Kit Arialy	ses
PCBs		-i illered	M/E/E			Fe ²⁺		F-y/n
SVOCs			Sulfide		-	Mn ²⁺		F-y/n
ТРН-е			TDS					,
ТРН-р			VOCs			F-y/n= note (yes/no) filtere	d samples.
VOCs						Filter where t	urbidity > 100	NTU.
Sampler(s):	J. Hanze	d-Darbi	n /A. N	Jolan				
	mber(s):		• (1.1)		Sample Dat	e/Time: /:	2/26/07.	1100
	lection Meth		Disposable E			Other: Peri		

Field Duplicate

Dup. Sample Date/Time:_

Sheet / of 5

MS/MSD

QA/QC Sample(s)?

Comments:

Dup. Sample Number:_

None

			-		= =	26		GOG ,
Well No.:	Waer	2	MWO No).;	_ Day/Da	20 ate: 12/20/0	7/1135	PRESIDIO TRUST
Site/Projec	t Name:	BDA 1		54			- 1	
Organic V	apor Conce	ntrations	Top of C	asing:	_ppm	Breathing Z	onep	pm
Depth to be	ottom:		ft. below to	p of casing			Initial D.O.	Readings
Depth to w	ater:		ft. below to	p of casing			Position in So	creened Interval
-		Water Colum	n		Purge Volur	ne	Тор:	mg/L
2-inc	h well		ft. x 0.163 g	gal/ft x 3 =		gal.	Middle:	mg/L
4-inc	h well		ft. x 0.652 g	gal/ft x 3 =		gal.	Bottom:	mg/L
inc	h well		ft. x	gal/ft x 3 =		gal.		
Method of	Extraction:		Disposable	Bailer		Other:		7
			Grour	ndwater Para	meters			
	Volume Purged	Temp.	Specific Conductivity	Salinity	Dissolved Oxygen		Turbidity	Redox
Time	(gal.)	(°C)	(mS/cm)	(ppt)	(mg/L)	pН	(NTU)	Other
1135	_	7.9	1220,45		8,23	8,62	2010	137
Purged Dry?		neasurement ipment used:		14				
	7. 75 No.			vater Samples	Collected	7	market style to	
An	alytes of Conc	ern			Fate and T	ransport Data		
	Off-Site I.ab			Off-Site Lab		Provide the second second	ld Test Kit Analy	/ses
Metals PCBs		-Filtered	Anions M/E/E			Alkalinity Fe ²⁺		F-y/n
SVOCs			Sulfide			Mn ²⁺		F-y/n
ТРН-е			TDS					
TPH-p			VOCs [The state of the s	yes/no) filtere	A THE PERSON OF
VOCs			L			Filter where t	urbidity > 100	INTU.
Sampler(s):	J. Hanz	el-Durk	oin /A	Nolan				
Sample Nui	mber(s):				Sample Date	te/Time:		
Sample Col	lection Meth	od:	Disposable 8	Bailer		Other:		
QA/QC San	nple(s)?		None		Field Duplic	ate		MS/MSD
Dup. Sample Number: Dup. Sample Date/Time:								

Sheet 2 of 5

						-		
Well No.:	BBIPZZO	5 1	MWO No	. <u>:</u>	_ Day/Da	ate: 12/ 26		PRESIDIO TRUST
Site/Projec	ct Name:	BBDA	1	84				
Organic V	apor Conce	ntrations	Top of C	asing:	_ppm	Breathing Z	onep	pm
Depth to be	ottom:		ft. below to	p of casing			Initial D.O.	Readings
Depth to w	ater:	6.14	ft. below to	p of casing			Position in So	creened Interval
		Water Colum	n		Purge Volur	ne	Тор:	mg/L
2-inc	h well		ft. x 0.163 g	gal/ft x 3 =		gal.	Middle:	mg/L
4-inc	h well	X	ft. x 0.652 g	gal/ft x 3 =		gal.	Bottom:	mg/L
inc	h well		ft. x	gal/ft x 3 =		gal.	######	
Method of	Extraction:		Disposable	Bailer	\times	Other: pe	eristalti	c pump
			Grour	ndwater Para	ameters			
Time	Volume Purged -(gal.)- L	Temp. (°C)	Specific Conductivity (mS/cm)	Salinity (ppt)	Dissolved Oxygen (mg/L)	рН	Turbidity (NTU)	Redox Othe r
1145	2 L	12.8	1961215		2,59	8.21	1315	147
Purged Dry?		neasurement ipment used:		Hic Dun	CN			
			Groundy	vater Samples	Collected			
An	alytes of Conce	ern			Fate and Ti	ransport Data		
	Off-Site Lab			Off-Site Lab			ld Test Kit Analy	/ses
Metals PCBs		-Filtered	Anions M/E/E			Alkalinity Fe ²⁺		F-y/n
SVOCs			Sulfide			Mn ²⁺		F-y/n
TPH-e			TDS					,
TPH-p		3	VOCs [C211-971	yes/no) filtere	CONT. 10 CON
VOCs						Filter where t	urbidity > 100	NTU.
Sampler(s):	J. Hanz	el-Duchi	2 /A. A	Jolan				
Sample Nui	mber(s):				Sample Dat	te/Time:		
Sample Col	llection Meth	od:	Disposable 8	Bailer		Other:		
QA/QC San	nple(s)?		None		Field Duplic	ate		MS/MSD
Dup. Sampl Comments:					Dup. Sampl	le Date/Time	<u> </u>	

Sheet 3 of 3

Well No.:	Well No.: BBIP2200		MWO No	••	_ Day/Da	ate: 12/26	107	PRESIDIO YRUST
	ct Name: <u>R</u>					,48826 93		
Organic V	apor Conce	ntrations	Top of C	asing:	_ppm	Breathing Zo	onep	pm
Depth to b	ottom:		ft. below top	o of casing			Initial D.O.	Readings
Depth to w	ater:	2.95	ft. below top	o of casing			Position in So	creened Interval
		Water Colum	n .		Purge Volur	<u>n</u> e	Тор:	mg/L
2-inc	h well	+ 100 1 2 11L	ft. x 0.163 g	jal/ft x 3 =		gal.	Middle:	mg/L
4-inc	h well		ft. x 0.652 g	jal/ft x 3 =		gal.	Bottom:	mg/L
inc	h well		ft. x !	gal/ft x 3 =		gal.		
Method of	Extraction:		Disposable	Bailer		Other:		
			Grour	ndwater Para	ameters			
Time	Volume Purged (gal.)	Temp. (°C)	Specific Conductivity (mS/cm)	Salinity (ppt)	Dissolved Oxygen (mg/L)	рН	Turbidity (NTU)	Redox -Other
1210	_	11.1	1403115		0.81	8:55	**************************************	146
		r-win-v-ui-v-voi-voi						
Purged Dry?	12000	neasurement ipment used:						
r uigou biji.				ater Samples	Collected			
An	alytes of Conc	ern	0,00,10	ater comples		ansport Data		
	Off-Site I.ab			Off-Site Lab		Fie	ld Test Kit Analy	/ses
Metals		-Filtered	Anions			Alkalinity Fe ²⁺		_ , _
PCBs SVOCs			M/E/E Sulfide			Mn ²⁺		F-y/n F-y/n
TPH-e			TDS		_	1		1 -y/11
ТРН-р			VOCs			F-y/n= note (yes/no) filtere	d samples.
VOCs		n	August 1911 (1918) (1918)			Filter where t	urbidity > 100	NTU.
Sampler(s):	J. Hanz	el-Dur	oin /A.	Nolan				
Sample Nu	mber(s):				Sample Dat	e/Time:		
	llection Meth	od:	Disposable B			Other:		
QA/QC Sar	nple(s)?		None		Field Duplic	ate		MS/MSD
Dup. Samp	Dup. Sample Number:							

Sheet 4 of 5

			MONITORIN	IG WELL SA	AMPLING L	og v	P	a da Oa P
Well No.:	Wer 1] MWO No).: <u></u>	_ Day/Da	ate: 12/24	107	PRESIDIO TRUST
Site/Projec	t Name:(3BDA						
Organic V	apor Conce	ntrations	Top of C	asing:	_ppm	Breathing Zo	onep	pm
Depth to be	ottom:	7.1	ft. below to	p of casing			Initial D.O.	Readings
Depth to wa	ater:		ft. below to	p of casing			Position in Screened Interval	
	.9	Water Colum	nn		Purge Volun	ne	Тор:	mg/L
2-incl	h well		ft. x 0.163 g	gal/ft x 3 =		gal.	Middle:	mg/L
4-incl	h well		ft. x 0.652 g	al/ft x 3 =		gal.	Parada wa	mg/L
	h well	100 Table 1 Ta			gal.	W- W. C 141,000 B.		
Method of I	Extraction:		Disposable	Bailer		Other:		
			Grour	ndwater Para	meters			
	Volume	-	Specific	POSICIA PATAMENTA	Dissolved		SIRMAL UURO KASI	
Time	Purged (gal.)	Temp. (°C)	Conductivity (mS/cm)	Salinity (ppt)	Oxygen (mg/L)	рН	Turbidity (NTU)	Redox -Other
Time	(gai.)	(0)	(morem)	(ppt)		pri	(1410)	
1225		11.3	1232us		1166	8,69	13,6	1-3 131
	Field n	neasurement	l	+:				
Purged Dry?	1	ipment used:		*11				
			Groundy	vater Samples	Collected			
An	alytes of Conc	ern			Fate and Tr	ansport Data		
	Off-Site Lab			Off-Site Lab		Fie	ld Test Kit Analy	/ses
Metals		-Filtered	Anions			Alkalinity		
PCBs			M/E/E		_	Fe ²⁺ Mn ²⁺		F-y/n
SVOCs			Sulfide TDS			livin [F-y/n
TPH-e			VOCs			C/4- /	/\ 614	
TPH-p VOCs	L.		vocs [F-y/n= note (Filter where t		
· · · · · · · · · · · · · · · · · · ·	1 11		10				, , ,	
	J. Hanz	el-Durbi	W/A.A	Jolan				
Sample Nur				7.0	Sample Dat			
Sample Col	lection Meth	od:	Disposable 8	Bailer 		Other:		
QA/QC San	nple(s)?		None		Field Duplic	ate		MS/MSD
Dup. Sampl	e Number:_				Dup. Sampl	e Date/Time	<u> </u>	

Sheet 5 of 5

Comments:

oject:_	BBDA				Job N	o.: <u>4084075118</u> 036
Subject:	FIELD INVES	TIGATION DAILY REPO	MI.		Date:	1/3/07
	it Rental:		ny: om:	to:		JHD
rdmbmen	nt Hours:					
	(Outside	service and expense record	must be atta	cned for any o	utside c	:USIS)
0845		omanize/load				
1000		railers gother g	iear and	set up	rope	3
1020	sampled BRIEX	cell C-3 18/60.07				
1040	Sampled BBIEX	Cell C-6 182[0.6]				
(80)	PZZOZ					
	WL= 4.06					
-	Do = 1.06					
	PH = 8.31					
	Temp= 12.8					
	Tilb = 33,					
	Redox = - 10					
	Removed 4	Liter: came ba	rck and	removed	14	more.
	following	inital liter for	Desame	ters the	ine	ll was
	surged	inital liter for with 2" pvc be	iler and	l water	semov	ved was grey
@PZ	201					
en a constitue de la constitue	12=6.03		•			
	0=1,24	Removed 31				
	H = 7.95			ot water	in	same manner
	mp = 11.1	as P7707	•			
	1-1775					
the state of the s	ond = 1775			7		
be	edox = 122					-
Attachmen	nts:					

oiect: RRDA 1		Job No.: 4084075118
bject: FIELD INVEST	TGATION DAILY REPORT	Date: //3/08
pripment Rental:	Company:to:to:	By: JAD
(Outside s	ervice and expense record must be attached for a	any outside costs)
P. P2200		∃yE.
WL= 2.92		
PH=8.49	Removed 4.0 Liters of wa	ter then refurned
DO-0.98	and removed litter o	t water in some
Temp=10.9	manner as previously 12202 P2702	described at
Cond=1394	P2202 P2202	
Redox = 139		
	<u> </u>	
atachments:		
A CHARLES AND THE WAY OF THE PARTY OF		Initial



pth to water: S.5.7 ft. below top of casing Purge Volume Top:mg/L		entrations	Top of C	asing:	ppm	Breathing Z	onep	pm
Water Column Vater Column Vater Column 1	epth to bottom:	8	ft. below to	p of casing	Micro		Initial D.O.	Readings
Water Column 2-inch well	epth to water:	Control of the second of the		8	pus	c	1000 HAVE - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 1	
2-inch well 4-inch	42.0		_		Purge Volur	me		
4-inch wellinch	2-inch well	-	ft. x 0.163 g	gal/ft x 3 =		gal.		
Time (gal.) (°C) (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mg/L) pH (NTU) Other (mS/cm) (ppt) (mS/cm) (mS/cm) (ppt) (mS/cm) (ppt) (mS/cm) (ppt) (mS/cm) (ppt) (mS/cm) (mS/cm) (ppt) (mS/cm) (mS/cm) (ppt) (mS/cm) (mS/cm) (ppt) (mS/cm) (mS/cm) (ppt) (mS/cm) (mS/cm) (mS/cm) (ppt) (mS/cm) (mS/cm) (mS/cm) (mS/cm) (ppt) (mS/cm) (mS/c	4-inch well		ft. x 0.652 (gal/ft x 3 =	1190	gal.		
Croundwater Parameters Specific Conductivity Salinity Oxygen (mg/L) pH (NTU) Other Oxygen (mg/L) pH (NTU) Other Oxygen (mg/L) pH (NTU) Other Oxygen (mg/L) pH (NTU) Other Oxygen (mg/L) pH (NTU) Other Oxygen Oxyge	inch well		ft. x	gal/ft x 3 =		gal.	~	
Volume	ethod of Extraction:		Disposable	Bailer	X	Other:	eristalti	comp
Time Purged Temp. (°C) (ms/cm) (ppt) (mg/L) pH Turbidity (NTU) Other (Mg/L) pH (NTU) Other (Mg/L) pH (NTU) Other (Groui	ndwater Para	ameters			4
Time (gal.) (°C) (mS/cm) (ppt) (mg/L) pH (NTU) Other (147		Tomp	Part 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	0 11 11				\ .
Groundwater Samples Collected Analytes of Concern Off-Site Lab Field Test Kit Analyses Alkalinity Fe-2 F-y/n Mn2² F-y/n F-y/n Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Field Test Kit Analyses Alkalinity Fe-2 F-y/n Nn2² F-y/n F-y/n Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Field Test Kit Analyses Alkalinity Fe-2 F-y/n Nn2² F-y/n Fe-y/n Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Field Test Kit Analyses Alkalinity Fe-2 F-y/n Nn2² F-y/n F-y/n Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Field Test Kit Analyses Alkalinity Fe-2 F-y/n Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Field Test Kit Analyses Alkalinity Fe-y/n Fe-y/n Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Field Test Kit Analyses Alkalinity Fe-y/n Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site La		14	A CONTRACTOR OF THE PROPERTY O	The state of the s	7.25	На		Other
Sample Number(s): Disposable Bailer Dup, Sample Date/Time: Dup,	948					Part I	1	5.57
Comparison of the comparison		7.000	Vicer yo	incorp	emp			
Groundwater Samples Collected Analytes of Concern Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Field Test Kit Analyses Alkalinity Fe²' F-y/n TDS VOCS F-y/n= note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Impler(s): Imple Number(s): Disposable Bailer QC Sample Outper(s)? None Field Duplicate MS/MSD Dup. Sample Date/Time:	1008		1050	G8.0	5.58		87.2	
Groundwater Samples Collected Analytes of Concern Off-Site Lab Off-Site Lab Off-Site Lab Anions ME/E Sulfide TDS VOCs F-y/n= note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Inpler(s): UK THE OR Sample Date/Time: 1038 1013 1013 1013 1013 1013 1013 1013			1940	40.2	3.13	7.81	60.0	
Groundwater Samples Collected Analytes of Concern Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Anions ME/E Sulfide TDS VOCs F-y/n= note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Inpler(s): Disposable Bailer QC Sample (s)? None Field Duplicate MS/MSD Dup. Sample Date/Time: Dup. Sample	1610 119	1-7.				h)
Groundwater Samples Collected Analytes of Concern Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Anions ME/E Sulfide TDS VOCs F-y/n= note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Inpler(s): Disposable Bailer QC Sample (s)? None Field Duplicate MS/MSD Dup. Sample Date/Time: Dup. Sample				3				
Groundwater Samples Collected Analytes of Concern Off-Site Lab Off-Site Lab Field Test Kit Analyses Alkalinity Fe² F-y/n Nn² F-y/n TDS VOCs F-y/n= note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Poller(s): Disposable Bailer QC Sample(s)? None Field Duplicate MS/MSD Dup. Sample Date/Time: Dup. Sample Date/Time: Dup. Sample Date/Time: Dup. Sample Date/Time: MS/MSD				254			-	
Groundwater Samples Collected Analytes of Concern Off-Site Lab Off-Site Lab Field Test Kit Analyses Alkalinity Fe² F-y/n Nn² F-y/n TDS VOCs F-y/n= note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Poller(s): Disposable Bailer QC Sample(s)? None Field Duplicate MS/MSD Dup. Sample Date/Time: Dup. Sample Date/Time: Dup. Sample Date/Time: Dup. Sample Date/Time: MS/MSD								
Analytes of Concern Off-Site Lab Off-Site	Field	measurement						
Analytes of Concern Off-Site 1.ab Off-Site 1.ab Off-Site 1.ab Off-Site 1.ab Off-Site 1.ab Off-Site 1.ab Off-Site 1.ab Off-Site 1.ab Off-Site 1.ab Off-Site 1.ab Off-Site 1.ab Off-Site 1.ab Off-Site 1.ab Anions M/E/E Sulfide TDS VOCs F-y/n = note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Inpler(s): Inple Number(s): Inple Collection Method: Disposable Bailer Other: Other	rged Dry?eq	uipment used:	Harris Coli					
Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Off-Site Lab Anions M/E/E Sulfide TDS VOCs F-y/n= note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Inpler(s): Inple Number(s): Inple Collection Method: Disposable Bailer QC Sample (s)? None Dup. Sample Date/Time: Dup. Sample Date/Time: Dup. Sample Date/Time:			Groundy	vater Samples	Collected			
Anions M/E/E Sulfide TDS VOCs F-y/n= note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Appler(s): Bbi 6-20 Sample Date/Time: 1038 103/103 Apple Collection Method: Disposable Bailer	Analytes of Con	cern		Ott-Site Lab	Fate and Tr		old Tost Vit Analy	1606
M/E/E Sulfide TDS VOCs F-y/n= note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Popler(s): Bb16~201 Pople Collection Method: Disposable Bailer QC Sample (s)? None Field Duplicate MS/MSD Dup. Sample Date/Time: Dup. Sample Date/Time: Dup. Sample Date/Time: Dup. Sample Date/Time:	**************************************	10/-	Anions	ON-ONE EUD		2000 2000	no rest rit Arian	363
TDS VOCs F-y/n= note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Impler(s): Bbi 6 20 Sample Date/Time: 1038 11368 Imple Collection Method: Disposable Bailer QC Sample(s)? None Field Duplicate MS/MSD Dup. Sample Date/Time: Dup. Sample Date/Time:	**************************************	I-Lilleled		and the second second				F-y/n
F-y/n= note (yes/no) filtered samples. Filter where turbidity > 100 NTU. Impler(s): Wr The Sample Number(s): Bb16-20 Sample Date/Time: 1038 113/63 Imple Collection Method: Disposable Bailer	Off-Site Lab	1-rintered	M/E/E					
riller where turbidity > 100 NTU. Impler(s): WK TWO Imple Number(s): Bbi 6~20 Sample Date/Time: 1038 11368 Imple Collection Method: Disposable Bailer	Off-Site Lab	-rintered	Sulfide					F-y/n
nple Number(s): Bb16~20 Sample Date/Time: 1038 11363 nple Collection Method: Disposable Bailer	Off-Site Lab		Sulfide TDS			Mn ²⁺		
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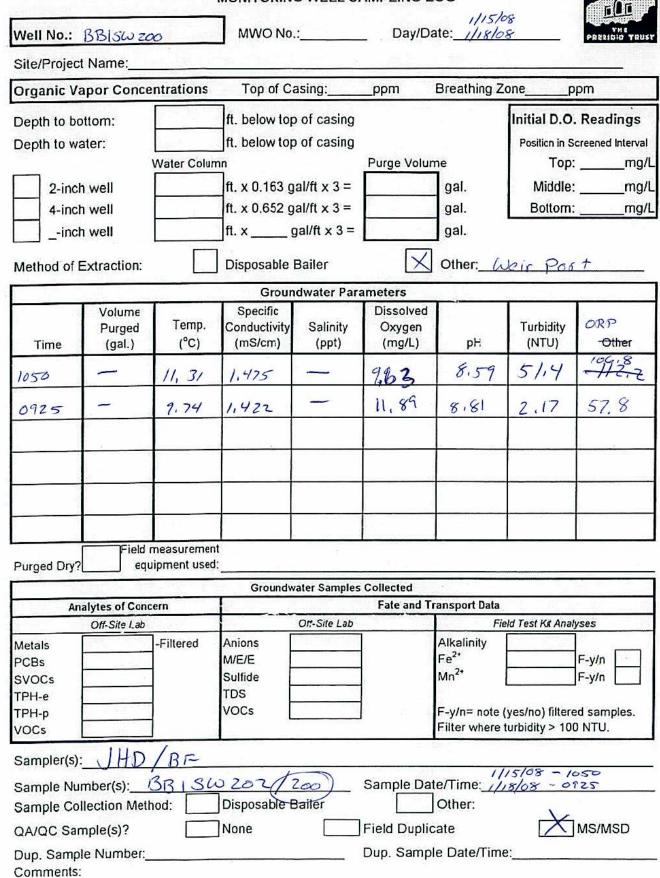
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MONITORING WELL SAMPLING LOG



Sheet ___ of ___

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1/15/08

APPENDIX I

MEMORANDA - GEOTECHNICAL EVALUATION

APPENDIX I CONTENTS

Post Construction Geotechnical Memorandum

Figure 1 Geologic Map, Baker Beach Disturbed Area 1

Figure 2 Geologic Map, Baker Beach Disturbed Area 2A

Memorandum, Geologic observations, 9-7-07

Slope Stability Assessment, Baker Beach Disturbed Areas 1 & 2A, November 13, 2007

E-mail regarding Cracking at Top of Slope, Baker Beach 1, 01/8/08

E-mail regarding Baker Beach Site Visit on 01-18-08

Photographs from 01-18-08 Site Visit

Site Visit to Baker Beach with DTSC, 04/24/08

MACTEC Memorandum describing May 14 and 19, 2008 Site Visits

engineering and constructing a better tomorrow

July 21, 2008

Ms. Jennifer Yata and Ms. Eileen Fanelli The Presidio Trust 67 Martinez Street, PO Box 29052 San Francisco, CA 94129-0052

Subject:

Post-Construction Geotechnical Memorandum

Baker Beach Disturbed Areas 1 and 2A Landfill Removal

Presidio of San Francisco, California

MACTEC Project No. 4084075118 05.01, 10.01

Dear Ms. Yata and Ms. Fanelli:

This memorandum summarizes the geotechnical services MACTEC provided during remediation of Baker Beach Disturbed Areas 1 and 2A (BBDA 1 and BBDA 2A) at the Presidio of San Francisco. Our services were performed in accordance with the requirements of the Final Remedial Design Document and Remedial Action Work Plan, dated July 17, 2007.

SITE VISITS AND OBSERVATIONS

MACTEC geotechnical engineers and/or geologists visited the remediation sites several times during the work to observe the exposed conditions as waste fills were removed from the bluff slopes. Our observations were documented by site visit reports that were submitted to the project team as the work progressed. Copies of the site visit reports are also included in the Construction Completion Report for BBDAs 1 and 2A. The following paragraphs summarize each site visit.

September 7, 2007. Steve Korbay, Senior Principal Geologist, visited the BBDA 1 Site to observe and evaluate the exposed soil and geologic conditions where old earth and trash fill was being excavated from the steep slope below Battery Boutelle and Battery Marcus Miller. Much of the fill on the north portion of the slope had been removed, exposing the underlying serpentinite bedrock. A groundwater seepage zone in the center of the fill slope, previously identified in MACTEC's geotechnical investigation of the site (see the Field Investigation Report, dated June 2006), had been partially excavated. The seepage was occurring along the contact between the serpentinite and underlying shale of the Franciscan mélange unit. There were no indications of slope instability during this site visit.

November 13, 2007. Don Quigley, Senior Principal Engineer, and Steve Korbay visited the BBDA 1 and 2A Sites to observe the nearly-completed remediation work. Most of the waste fill had been removed from the sites, exposing serpentinite in the steeper upper portions of the bluff slopes and Franciscan mélange in the lower gentler slopes near the beach. Rock scaling had been accomplished to reduce the risk of rockfalls from the upper steep slopes at both sites. An isolated serpentinite rock "tower" at the top of the slope at BBDA 1, near the former incinerator, appeared to be an intact rock mass. Further down the slope at this location, the seepage area had undercut vertical slopes in weaker, sheared serpentinite, which exhibited fracture openings and onset of dislocation from the main rock mass. Alternatives for (1) reducing further undercutting by placing a rock blanket over the area, or (2) monitoring the undercut slope to defer placement of the rock blanket were discussed in our site visit report. We recommended that

July 21, 2008 4084075118 05.01, 10.01 Ms. Jennifer Yata and Ms. Eileen Fanelli The Presidio Trust Page 2

groundwater from the main seepage area should be collected behind a weir, and piped to the beach to prevent uncontrolled saturation and increased risk of instability of the soil-covered middle and lower slopes at the BBDA 1 Site. We also listed several recommendations for reducing soil erosion and rockfalls at the BBDA 1 and 2A Sites during upcoming winter storms.

January 8, 2008. Steve Korbay visited the BBDA 1 Site to observe recent accounts of cracking in the ground surface at the top of the bluff behind the serpentinite rock knob (or tower) that had been last seen on our November 13, 2008, site visit. Discontinuous, parallel cracks extended several tens of feet along the top of the bluff and then diminished and trended downslope abound the rock knob. The serpentinite knob was closely fractured and highly variable in hardness and strength. It appeared to be underlain by weak and sheared serpentinite forming a near-vertical slope with numerous tension cracks areas saturated by recent rains. We recommended that the slope be visually monitored daily. However, it was our opinion that ultimately the rock knob would move downslope. As a result, a vertical scarp would likely develop at the top of the bluff. This could require modification to reduce further slope failure and encroachment into the recently-constructed trail and earth berm adjacent to the top of the bluff.

January 18, 2008. Steve Korbay and Don Quigley visited the BBDA 1 Site to again observe the surface cracking in the ground at the top of the bluff. The cracks appeared to result from failure of the steep rock face further down the slope at the location of the seepage area, leaving a 20-foot-high slide scarp above the seep and below the serpentinite rock knob. The ground cracks surrounded the rock knob, but it was unclear whether the knob would eventually fail downslope. Because of concerns that additional winter rains would continue to saturate the area, reshaping of the top of the slope was not recommended at that time, but that monitoring of crack enlargement should continue.

April 24, 2008. Don Quigley visited the BBDA 1 Site to show the slide areas to Ram Ramanujian, DTSC geotechnical engineer, and to describe how they developed and what may happen to them in the future. By this time, the rock knob near the top of the bluff had fallen and the remnant slope at the top of the slide area was a relatively steep and unstable rock mass, with a near-vertical scarp, approximately 6 feet high, extending into the trail at the top of the bluff. The scarp extended northward behind a more shallow sliding mass (as opposed to separate rockfalls). Mitigation measures were discussed, including "knocking down" the steep unstable rock mass and cutting back the vertical scarps behind and to the north of the rock mass. This would require relocation of the trail. The BBDA 2A Site was briefly observed and only minor cracks in weathered serpentinite were noted, though surface erosion rills in the slopes were numerous.

May 14 and 19, 2008. Steve Korbay visited the BBDA 1 and 2A Sites to prepare a final geologic map of the remediation areas (see Attachment), just prior to smoothing of the slide area at the top of the bluff at BBDA 1 by the remediation contractor. His observations were as follows:

• BBDA 1. The upper two-thirds of the slope exposes weathered and sheared serpentinite, and the lower one-third consists of Franciscan mélange. A 20-foot wide zone of sheared serpentinite is in the upper part of the mélange. Seepage is present along the serpentinite/mélange contact. The unstable landslide area in the upper-central part of the slope starts at the top of bluff along the edge of the trail

July 21, 2008 4084075118 05.01, 10.01 Ms. Jennifer Yata and Ms. Eileen Fanelli The Presidio Trust Page 3

and extends downslope about 150 feet. The slide is about 100 feet wide and includes the smaller landslide along the southwest side of the main unstable area. The upper part of the slide area has many tension cracks and consists of loosened masses of weathered serpentinite (remnants of the knob or tower); whereas, the lower part consists of smaller fragments of slide debris that have moved downslope several tens of feet. The toe area of the slide area consists of numerous boulders and gravel-sized rock fragments. Further downslope, the debris consists of shallow flow material, talus, and minor amounts of loose fill soil from slope grading. Very little slide debris has reached the base of slope and beach.

BBDA 2A. The graded slope consists of weathered serpentinite in the upper part of the slope and
Franciscan mélange shale and greywacke sandstone in the lower half. Only a small area in the upper
center of the slope contains several tension cracks in the shallow loose serpentinite. There are no
indications of incipient slope failure such as open cracks and bulging ground.

CONCLUSIONS REGARDING SLOPE STABILITY

Based on our observations of the BBDA 1 and 2A remediation areas, the exposed slopes now consist primarily of serpentinite and Franciscan mélange (shale and sandstone) bedrock. Loose rock blocks have been removed to decrease the risk of rock falls. Erosion-control mats have been placed over the exposed slope faces of weathered rock to reduce shallow erosion from water runoff until a vegetation cover is established.

The slide areas near the former rock knob at the top of the bluff at BBDA 1 have the greatest potential for short-term down-slope movements and rockfalls. However, this has been recently addressed by displacing loose rock blocks downslope and smoothing back the steep scarps at the top of the slope (see discussion below under Recommendations).

The historic batteries behind the bluffs at BBDAs 1 and 2A do not appear to have been affected by the remediation activities. There have been no significant changes in the widths of cracks in the concrete structures that have been monitored during and after remediation was accomplished.

GEOTECHNICAL RECOMMENDATIONS

Our recommendations for displacing loose rock blocks downslope and smoothing back the steep scarps at the top of the bluff slope at BBDA 1 have recently been implemented. This area is currently monitored, as part of the ongoing erosion control monitoring at the two sites, to confirm that the risk of rockfalls from this area has been reduced.

Other slide areas in the BBDA 1 and 2A slopes, if they develop, should be addressed on an individual basis to determine what, if anything, should be done. Potential rockfalls are likely to be the greatest concern because of the risk to users of the beach at the base of the bluffs.

July 21, 2008 4084075118 05.01, 10.01 Ms. Jennifer Yata and Ms. Eileen Fanelli The Presidio Trust Page 4

It is our understanding that the Trust wishes to restore the area to natural conditions and that the black drainage piping from the upper weir at BBDA 1 has been removed. Under natural conditions, without a water diversion system from the seep area, groundwater seepage beneath the slope and runoff from this area may increase the risk of landsliding and/or surface erosion of the slope.

We also recommend that surface monuments be established near the top of the BBDA 1 and 2A bluff slopes. If visual evidence of slope instability (such ground cracks parallel to the top of the bluff) is observed, the monuments should be surveyed to determine if ground movement behind the slope has occurred and of what amount. The patterns and amounts of movement would be helpful in addressing the severity of potential slope instability and possible consequences to nearby facilities, such as the historic batteries.

CLOSURE

We trust that the information presented in this memorandum is sufficient for documentation of our geotechnical services during remediation and our recommendations for initial maintenance of the stability of the bluff slopes in the remediated areas.

> Stephen R. Korbay, PG Senior Principal Geologist

Yours very truly,

Attachments:

MACTEC ENGINEERING AND CONSULTING, INC.

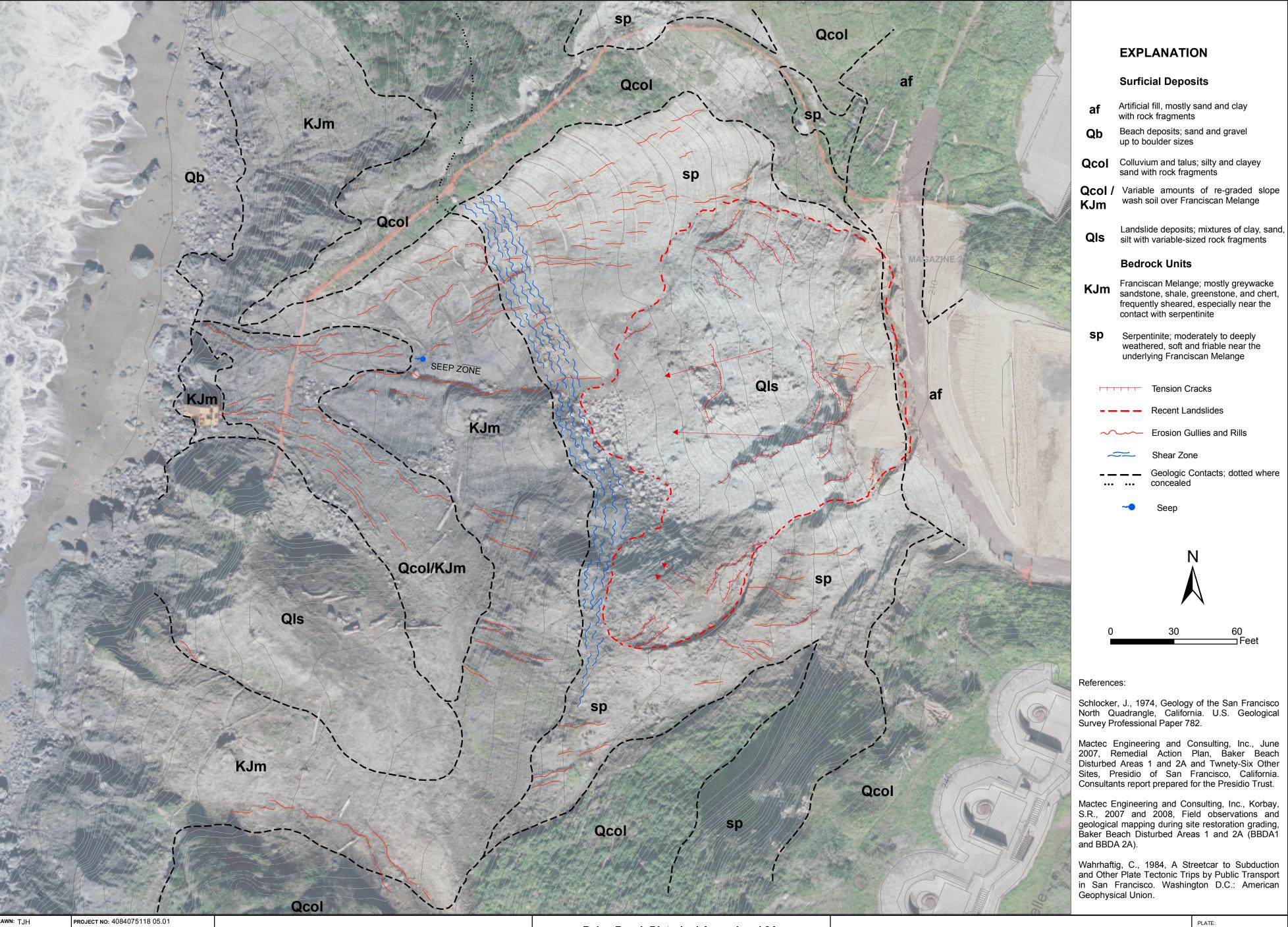
Donald W. Quigley, PE, GE

Senior Principal Engineer

dwg/srk/MB62850 Geotech Memo.doc-BB

Figure 1 - Geologic Map, Baker Beach Disturbed Area 1

Figure 2 - Geologic Map, Baker Beach Disturbed Area 2A



Baker Beach Disturbed Areas 1 and 2A

Presidio of San Francisco, California

MACTEC

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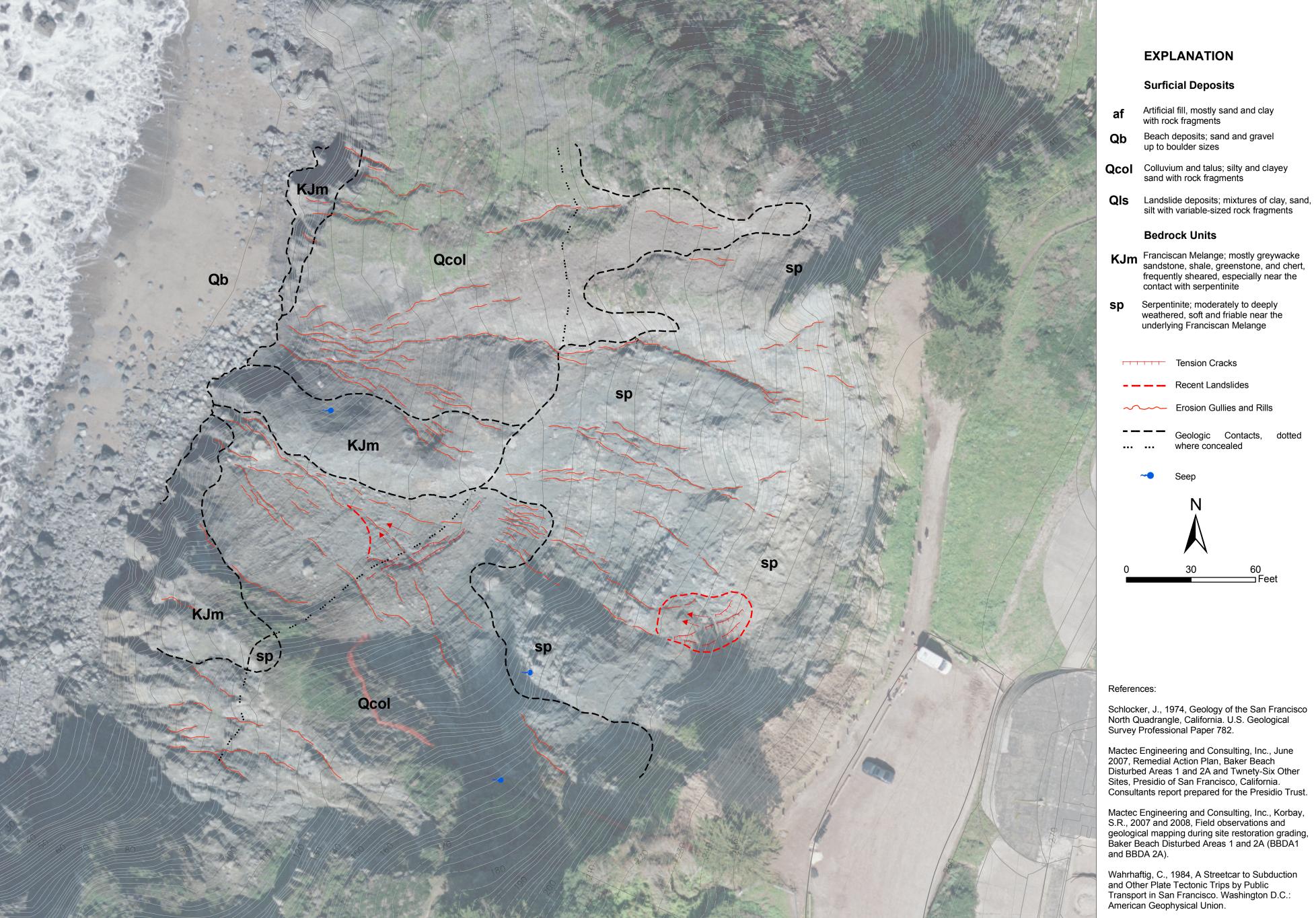
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 DATE:



Baker Beach Disturbed Areas 1 and 2A Presidio of San Francisco, California

Geologic Map Baker Beach Disturbed Area 2A 2

PLATE:

Barker, Myra

From:

Steve Korbay [srkorbay@comcast.net]

Sent:

Tuesday, September 11, 2007 9:17 AM

To:

Quigley, Donald

Subject:

Baker Beach Site Observations, 9-7-07

Follow Up Flag: Follow up

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Flag Status: Attachments:

header.htm

MACTEC MEMORANDUM

TO:

Don Quigley, San Francisco

FROM:

Steve Korbay, Petaluma

DATE:

September 10, 2007

PROJECT:

Baker Beach Disturbed Area 1 (BBDA-1)

SUBJECT:

Geologic Observations, 9-7-07

The following memo provides my observations and evaluation of exposed soil and geologic conditions at the BBDA-1 site where old earth and trash fill is presently being excavated. Several excavators are removing the material which is then transported upslope by conveyors, stockpiled at the top of slope, and then hauled off-site to a disposal area.

I met with Glen Angell and George Ford to discuss current progress in removal of the old fill that occupies the steep slope below Battery Boutelle and Battery Marcus Miller. As shown on photographs taken during this site visit, the earth fill occupies most of the bowl-shaped area in the center of the slope, extending almost to the base of slope and beach area. Much of the fill on the north portion of the slope has been removed, exposing the underlying serpentinite bedrock. A seepage zone in the center of the fill slope has been partially excavated. A temporary detention basin collects some of the seepage; however, much of the saturated fill is being excavated and hauled up-slope. The seepage zone was previously identified in the geotechnical investigation.

The seepage occurs along the contact between the serpentinite and underlying shale of the Franciscan mélange unit. The contact trends across the slope downward towards the northwest. The contact is about 1-foot thick and consists of variable-sized fragments and inclusions of deeply weathered serpentinite and sheared shale. The contact is most likely a zone of ancient faulting or folding, as is common along most serpentinite contacts in the San Francisco/ Marin area. The exposed contact on the slope at about 2/3rds down from the top of slope, dips near-horizontally but may steepen from the effects of slope creep, or from "toppling". According to cross sections from the geotechnical investigation, the dip is postulated to be about 45 degrees. Verification of the dip will be done upon further removal of fill and soil.

Based on the current limits of excavation, the adjacent slope to the northwest is underlain by slide debris consisting of serpenitnite fragments in a clay soil matrix. Franciscan mélange is exposed along the lower-most slope adjacent to the beach. Slide debris is also present on the un-disturbed slope to the south, also as mapped in the geotechnical investigation.

Continued removal of fill should expose the location of the spring and center of the seepage area which may require 11/14/2008

installation of a collection and drainage system.

As discussed with Glen Angell, there were no indications of slope instability during the site observations. Daily observations of the graded and adjacent slopes should be made for signs of slumping and cracking. Any such indications should be brought to our attention as soon as possible.

Copies of the photos taken during the site observations will be sent as a separate e-mail attachment.

To: Glen Angell / Ram Rao

From: Don Quigley and Steve Korbay

Date: November 13, 2007

Subject: Slope Stability Assessment – Baker Beach Disturbed Areas 1 &

2A

Project Number: 4084075118.02.03/08.03

Steve Korbay and I observed both remediation sites last Friday, November 9th. We were accompanied by Glen Angell of MACTEC and Bob Boggs of the DTSC. This memo has been prepared to present our opinions of the current stability of the slopes, which have now been near-fully remediated.

General Observations of Exposed Slopes

- BBDA-1. The finished slope indicates removal of waste fill and exposure of serpentinite and underlying melange. The serpentinite is highly sheared ("decomposed"), of low hardness and strength along the contact between the two rock units. The steepness of slope varies but is near-vertical at the top, where the serpentinite is relatively hard, strong and less-weathered. The risk of rockfalls reaching the beach appears to be smaller at BBDA-1 because there are several topographic benches in the middle and lower slopes to prevent falling rock blocks from bouncing and rolling all the way to the beach.
- BBDA-2A. The waste fill has been removed and serpentinte and melange is exposed. The finished slopes are relatively steep and have a high potential for any rockfalls that do occur to reach the base of slope and beach. Roots from former large trees are present at the top of bluff, occupying rock fractures and holding rock blocks in place.

Upper Slopes at BBDA-1 and BBDA-2A

- Rock scaling, performed after the waste fill was removed, has significantly reduced the risk of rockfalls from the upper steep slopes at both sites.
- The isolated rock "tower" at the top of the slope, near the former incinerator location, appears to be an intact mass of serpentinite that might have been formed by excavation of the adjacent trough thought to have been used in the former incinerator operations.
- There remains a risk of rockfalls, particularly during upcoming winter storms when direct rainfall, surface water runoff and wind could expose and loosen rock blocks and initiate rockfalls.

- Jute-mesh could be draped over the top of the bluffs to retard soil erosion above the shallow serpentinite and promote stabilizing vegetative growth.
- Wherever possible, the tops of bluffs should be graded to reduce surface water runoff over the slopes and the potential for erosion of the slopes.
- Temporary rockfall fencing could be installed in selected locations in the middle and lower portions of the bluffs. However, they might not be cost-effective because of the unknown risks of rock falls and the probable high cost of providing any substantial protection by rockfall fencing.
- Rock berms or blankets could be constructed along the mid or lower part of the slopes to slow or retard rockfall movement
- Rockfall warning signs should be posted at the toe of the lower slopes, adjacent to the beaches, to alert beach users of the dangers from above.
- Beach-use restrictions should be employed during storms this year when the risk of rockfalls will be the greatest. Risks should decrease as time passes and the upper slopes, now freshly exposed, "mature."

Middle and Lower Slopes at BBDA-1 and BBDA-2A

- Removal of loose waste fill has improved the stability of remaining surface soils on the middle and lower slopes at both sites.
- Until the soil-covered slopes are revegetated, there will be risks of erosion and movement of soil downslope towards the beaches. Wattles or silt fences placed along topographic contours in the middle and lower slopes should reduce sediment migration to the beaches
- The main groundwater seepage area (spring) in the mid-slope portion of BBDA-1 should be collected behind a weir and piped to the beach to prevent uncontrolled saturation (and increased risk of instability) of the soil-covered middle and lower slopes at this site.
- The rock above the mid-slope spring has some undercut vertical slopes in weaker, sheared serpentinite that exhibit fracture openings and onset of dislocation from the main rock mass. One block of serpentinite adjacent to the undercut area has broken free and threatens to enlarge the undercut area. Further undercutting over time could lead to separation of rock blocks from the higher portion of the high serpentinite slope above spring. To reduce the risk of further undercutting, a rock blanket could be placed to support the undercut slope. The surface of the rock could be mixed or covered with soil to promote vegetation growth if a softer visual impact is desired. Alternatively, the undercut slope could be monitored and placement of the rock blanket deferred until its need is more certain. If the rock blanket is placed, a perforated pipe should be installed at the base of the rock blanket to collect and convey water beyond its limits.

Korbay, Stephen (Sr.)

To...

Quigley, Donald

Cc...

Bcc...

Subject:

RE: Cracking at top of slope, Baker Beach 1

Attachments:

Don:

My observations today at Site 1 confirmed recent accounts of surface cracking at the top of slope or bluff. Discontinuous parallel cracks have developed adjacent to the large serpenitnite "knob" in the upper, central part of Disturbed Area 1. The cracks extend several tens of feet along the top of bluff north of the knob. The cracks then diminish and trend downslope into the recently graded area. Cracks were not present in the undisturbed vegetated area to the north. The knob is in or close to grid D2/3 and generally west of the area between Battery Boutelle and Battery Marcus Miller. The knob was partly created during grading and recent removal of waste fill. A recently placed compacted earthfill berm with a +/- 2:1 fill slope is present several feet from the bluff edge. No cracks or distress to the fill slope was observed. A crack was also observed mid-way downslope in the vicinity of the spring. This crack had been observed adjacent to the vertical rock cut above the spring in November.

The serpentinite knob is likely a relatively hard inclusion within the serpentinite zone that occupies the upper half of so of the overall slope. The serpentinite is generally closely fractured and highly variable with regards to hardness and strength. The serpentinite knob is apparently underlain by weak and sheared serpentinite that is more apparent in the lower portions of the zone where it overlies sheared shale about mid-slope in the vicinity of the spring. As such, the knob may not have "roots", but is an isolated inclusion within a clay-rich matrix of weak, highly sheared and altered serpentinite. Since the slope below the knob is near-vertical, tension cracks around and upslope have developed along ancient shear planes that have become saturated from recent rains.

As discussed with Glen Angell during my observations, visual monitoring should be performed on a daily basis. It is likely that the tension cracks will continue to widen as the knob tends to move downslope. Ultimate downslope movement is likely. Hopefully, the rock will disinegrate as it moves downslope so that only rock fragments will reach the base of slope. Portable barricades with yellow caution tape can be placed at the base of slope and the beach to warn of potential rock falls. In such an event, a vertical or near-vertical scarp will develop at the top of bluff which may require modification to miminize further slope failure encroachment beyond the current top of slope and close to the existing fill berm.

Steve Korbay srkorbay@comcast.net (home e-mail address)

FYI - Glen didn't have your email address

Donald W. Quigley, PE, GE VP, Senior Principal Engineer MACTEC Engineering and Consulting, Inc. 28 Second Street, Suite 700 San Francisco, CA 94105 415-278-2104 (direct) 415-543-8422 (main) 415-777-9706 (fax) 925-367-5609 (cell) dwquigley@mactec.com

Quigley, Donald

From:

Steve Korbay [srkorbay@comcast.net]

Sent:

Sunday, January 20, 2008 9:46 PM

To:

Quigley, Donald

Subject:

Emailing: Baker Beach, 1-18-08 001, Baker Beach, 1-18-08 002, Baker Beach, 1-18-08

003, Baker Beach, 1-18-08 004, Baker Beach, 1-18-08 005, Baker Beach, 1-18-08 006,

Baker Beach, 1-18-08 007, Baker Beach, 1-18-08 008

Follow Up Flag: Follow up

Flag Status:

Blue

Attachments:

Baker Beach, 1-18-08 001.jpg; Baker Beach, 1-18-08 002.jpg; Baker Beach, 1-18-08

003.jpg; Baker Beach, 1-18-08 004.jpg; Baker Beach, 1-18-08 005.jpg; Baker Beach, 1-18-

08 006.jpg; Baker Beach, 1-18-08 007.jpg; Baker Beach, 1-18-08 008.jpg

Don:

The attached pictures were taken during our site visit on the 18th. As discussed, the surface cracking that has developed along the top of slope is the result of failure of the steep slope in the vicinity of the spring that was observered several months ago. Also, the ground water in the slope has now been recharged from recent rains and additional seepage was noted on the slope north and south of the spring. As shown on the photos, seepage is coming from the shale/serpeninite contact. The ground cracks at the top surround the prominent serpentinite knob which may or may not eventually fail downslope. The slide scarp above the spring and below the knob is about 20 feet high. Since additional winter rains may continue to saturate the slope and cause additional crack enlargement, reshaping the top of slope at this time is not recommended. Periodic observation of the slope should be performed to monitor crack enlargement. Warning signs along the top of slope and at the base of slope regarding potential rock falls should continure.

Steve Korbay

The message is ready to be sent with the following file or link attachments:

Baker Beach, 1-18-08 001

Baker Beach, 1-18-08 002

Baker Beach, 1-18-08 003

Baker Beach, 1-18-08 004

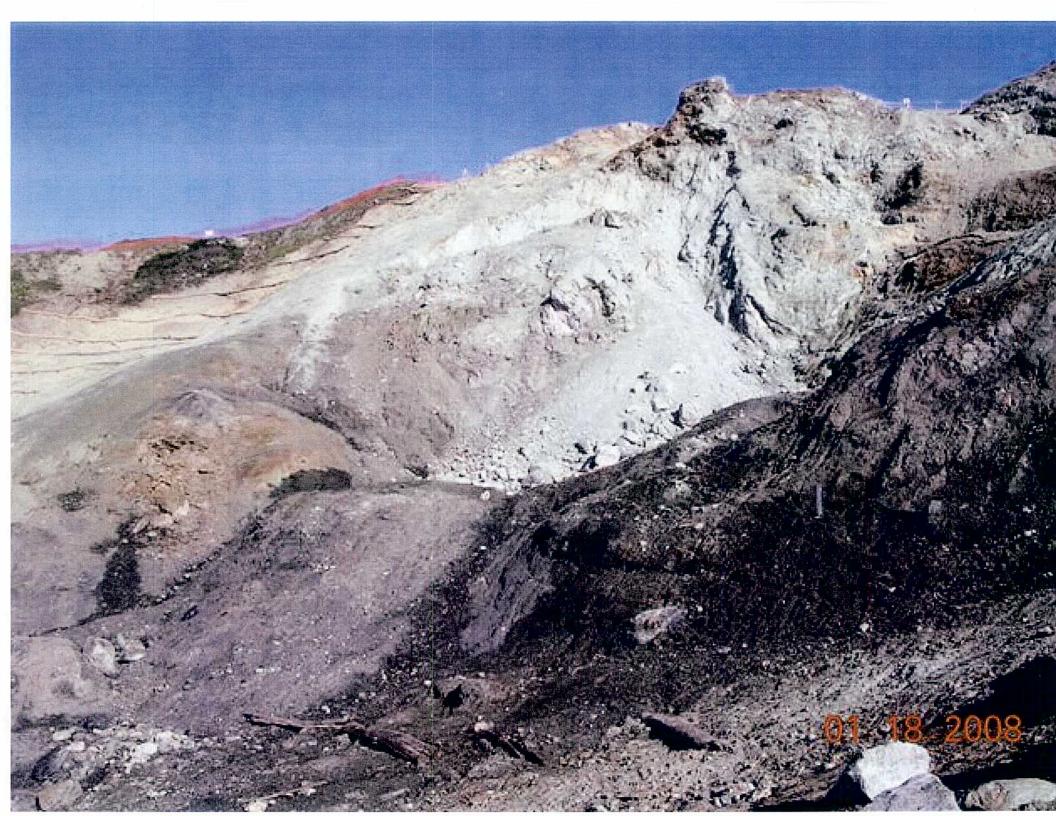
Baker Beach, 1-18-08 005

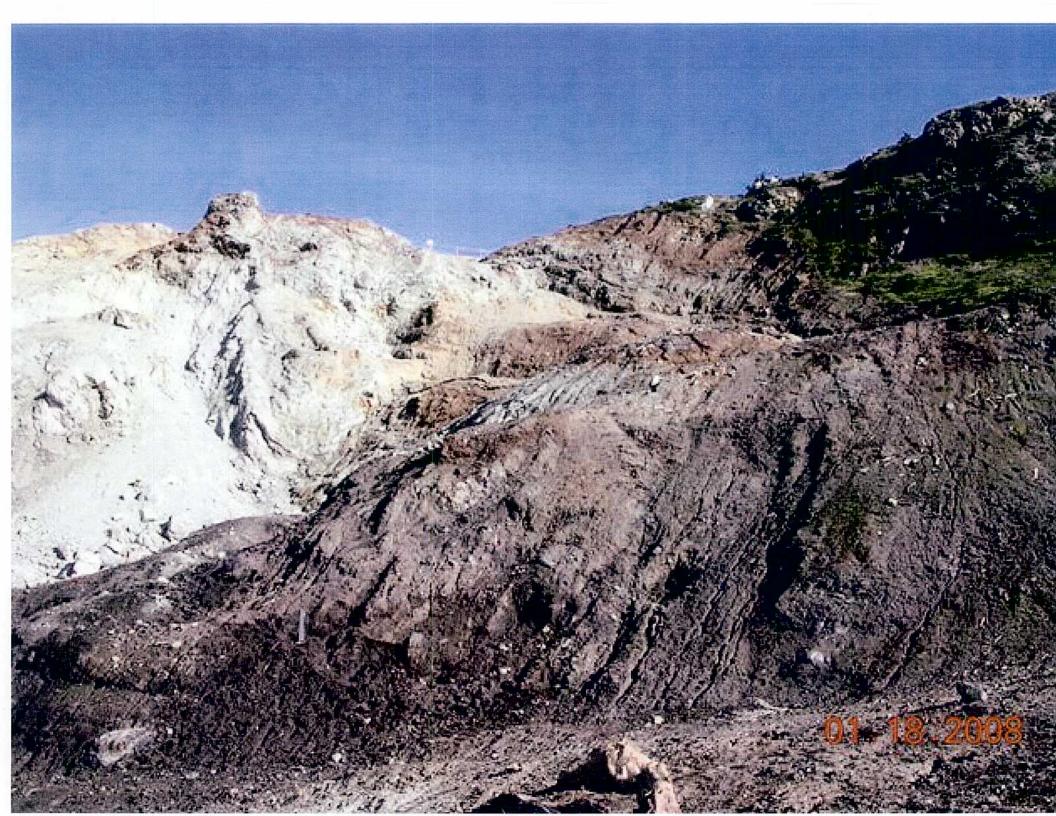
Baker Beach, 1-18-08 006

Baker Beach, 1-18-08 007

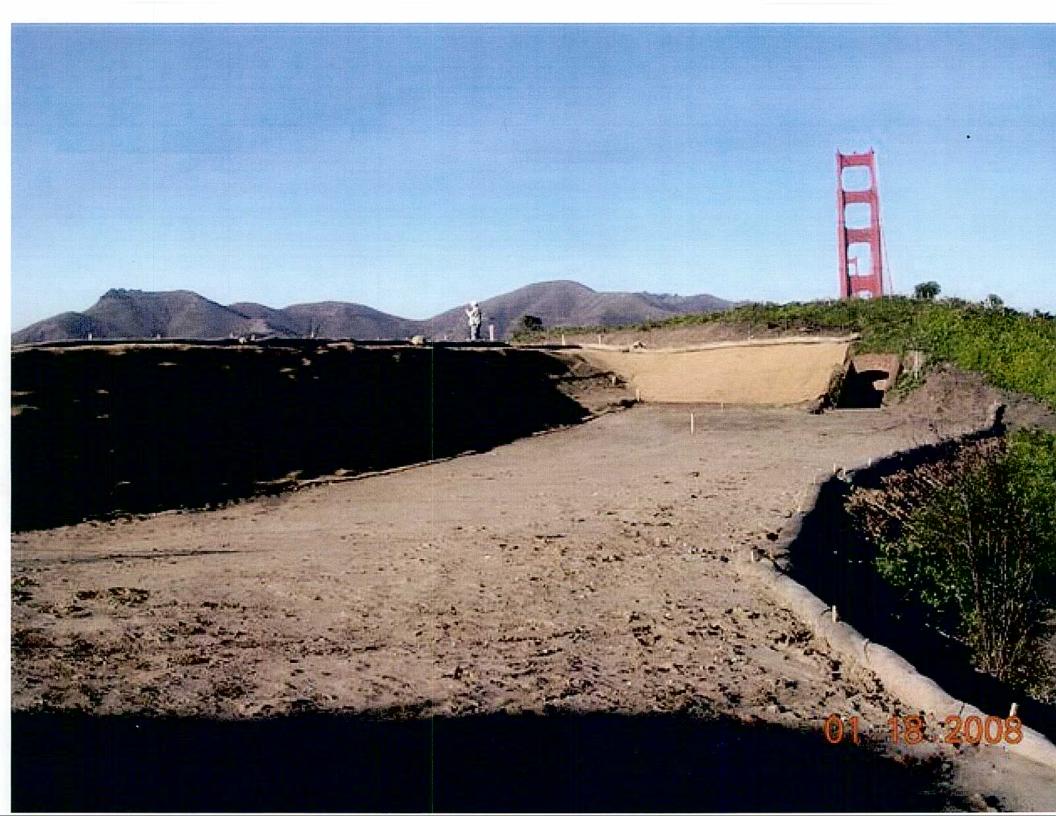
Baker Beach, 1-18-08 008

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.



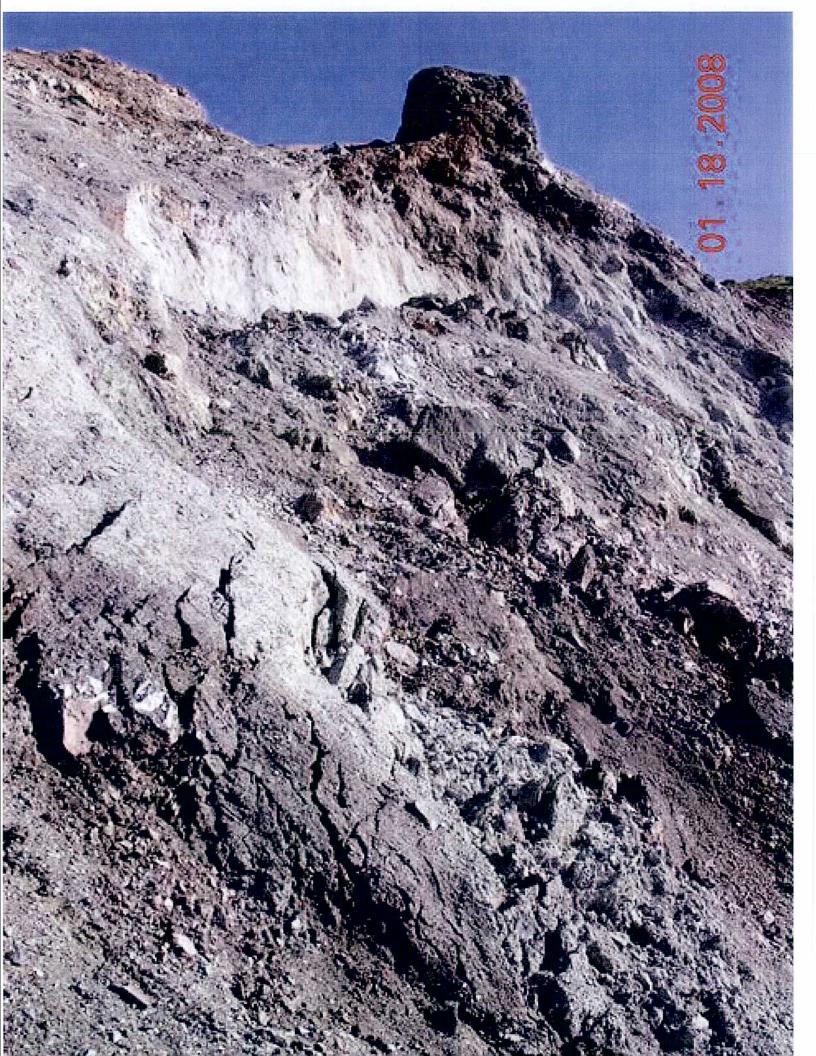














To:

From: Don Quigley

Date: 4/24/08

Subject: Site Visit to Baker Beach with DTSC

File

Project Number: 4084075118.03.02/.08.02

This memo summarizes my site visit today with the following:

Eileen Fanelli and Jennifer Yata, Presidio Trust

Brian Ullensvang, NPS

Bob Boggs and Ram Ramanujian, DTSC

The purpose of the site visit was to show Ram (DTSC Geotechnical Engineer) the slide areas at BBDA 1 and to describe how we think they developed and what may happen to them in the future.

Referring to the attached phone photos 1-5 (not very good quality), I stated the following to Ram about the slides at BBDA 1:

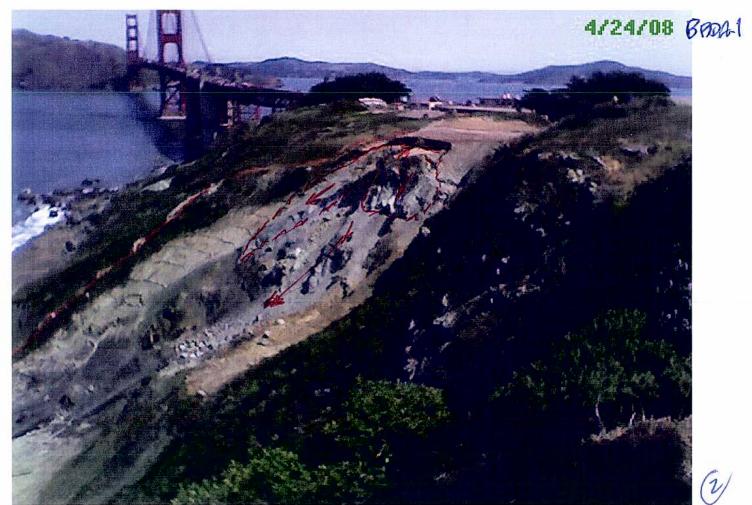
- 1. The southern slide is the uppermost remnant of several Serpentinite rockfalls that have occurred over the last few months. They apparently started with the detachment of undercut rock slopes just above the seep zone, which is located downslope at the contact between the Serpentinite and underlying, weaker Franciscan Mélange. The rock falls appear to have worked their way up the slope to the former "rock knob," which has now fallen. The remnant slope at the top this slide area is relatively steep and unstable, consisting of hard rock (grey in color) above relatively soft weathered rock (brown). This remaining rock mass has slumped downward about 6 feet, leaving a near-vertical scarp that has encroached upon the western side of the new trail above BBDA 1.
- 2. The northern slide appears to be a relatively intact mass of moderately weathered Serpentinite. It appears to have moved as a shallow sliding mass (as opposed to separate rockfalls). It also has left a near vertical scarp at the trail above the slope. It appears to be at less risk of large sudden movements in comparison to the remnants of the adjacent slide to the south.
- 3. I described one mitigation measure that has been discussed with the Trust and the NPS, namely: "knocking down" the steep uppermost remnant of the southern slide (to reduce the risk of rockfalls) and cutting back the vertical scarps along the western side of the new trail (so that they do not calve off in the future and work their way eastward). This would require relocation of the trail.

Ram appeared to agree with my descriptions of the slides and acknowledged that they were not unexpected because of the relatively unstable nature of the bluffs above Baker Beach. He did mention that he still favors monitoring of the bluff tops above the remediated slopes as an early warning measure should new or expanded sliding occur in the future.

We also briefly observed the slopes at BBDA 2A (photos 6 and 7). Only minor evidence of sliding (cracks in weathered Serpentinite) were noted, though surface erosion rills are numerous.

Attachments: Photos 1 - 7









BBDA-1

(4)



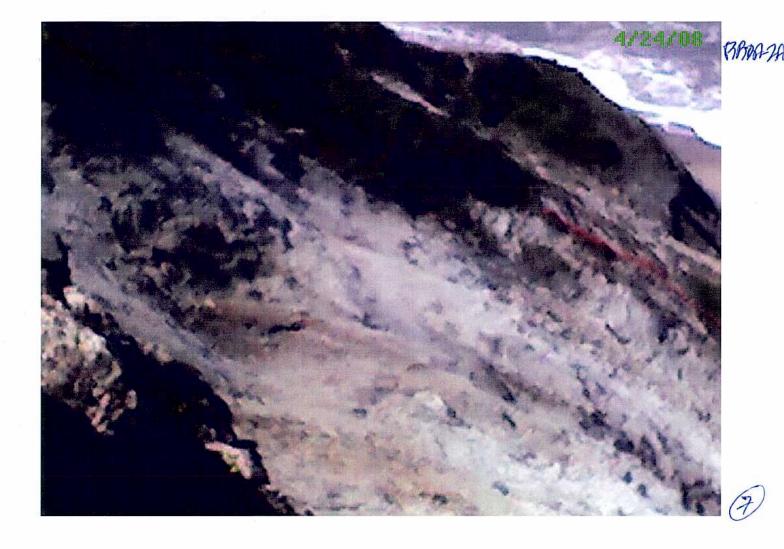






BB14214





MACTEC MEMORANDUM

To: Don Quigley

From: Steve Korbay

Subject: Baker Beach

Date: May 27, 2008

This memo provides an evaluation of geologic conditions observed at BBDA-1 and BBDA-2A on May 14th and 19th. Geologic maps of both sites at a scale of 1" = approx. 30' have been prepared using phototopo maps provided by Towill Engineering. The purpose of the evaluation was to record geologic conditions prior to remedial grading of the landslide at BBDA-1 and map any additional unstable conditions at both sites.

Mapping at BBDA-1 was done on a colored oblique aerial photo dated 5/08. Geologic units mapped consisted of the recent landslide; serpentinite in the upper half of the slope; Franciscan Melange (mostly shale and greywacke sandstone) in the lower half; old landslide deposits; recent shallow earthfill from grading; and colluvium.

As shown on the geologic map for BBDA-1, the recent landslide occupies the upper central part of the slope. Apparently the landslide consisted of numerous tension cracks and slumping, later to be followed by translational failure of the remnant knob at the top of slope. Most of the debris remained on the slope with only a very small amount of debris reaching the base of slope.

Numerous shallow erosion gullies and rills are present. Shallow sloughing also occurred on the re-graded slope along the northwest side of the site. Several of the straw wattles placed on the northwest side for erosion protection have been displaced by sloughing and erosion gullying. A smaller rotational slide also developed at the southwest side of the main slide. Seepage is still present at the contact between the serpentinite and the underlying mélange shale.

The serpentinite is highly sheared in a 25+' wide zone at the contact with the underlying shale. The shear zone is very soft, friable, and contains blocks of weak serpentinized mudstone. The underlying mélange is mostly sheared to closely fractured shale with inclusions of massive, closely fractured sandstone. As shown on the geologic map, colluviums covers most of the surrounding brush-covered slopes. Deeply weathered mélange (mostly sheared shale with inclusions of variably-sized fragments of sandstone, shale, greenstone, and chert) is well exposed along the base of slope next to the beach.

Mapping at BBDA-2A also used an oblique aerial photo. As shown on the geologic map for BBDA-2A, most of the re-graded slope contains numerous shallow erosion gulleys and rills. A

small (25'x50') area in the upper south part of the slope has experienced some tension cracks and minor slumping with little debris run-out. A similar sized area with a larger tension crack and a 50' long debris run-out is present in the lower part of the slope to the south that is underlain by colluviums and mélange.

The upper half of the slope exposes weathered serpentinite. Since most of the lower half of the slope is covered with colluvium, only a small portion exposes Franciscan mélange. Although mostly covered, the contact between the two is apparently not as sheared as the contact at BBDA-1.

APPENDIX J

UCL CALCULATIONS AND STATISTICAL COMPARISON OF METALS CONCENTRATIONS IN FRANCISCAN MELANGE TO SERPENTINITE

APPENDIXJ

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ATTACHMENT 1

APPENDIX J

APPENDIX J UCL CALCULATIONS AND STATISTICAL COMPARISON OF METALS' CONCENTRATIONS IN FRANCISCAN MELANGE TO SERPENTINITE

The purpose of this appendix is to present methods and data used in statistical calculations used to evaluate excavation confirmation sample data collected during remedial construction at Baker Beach Disturbed Areas (BBDAs) 1 and 2A.

J1.0 UCL Calculations

Upper confidence limits (UCLs) were calculated for selected metals that were detected in soil samples at concentrations that were considered unlikely to pose risk because they were not significantly higher than the cleanup level and/or had a metals signature characteristic of serpentinite. For each site, these metals included:

BBDA 1:

- Barium, chromium, cobalt, nickel, and vanadium; and
- Arsenic in serpentinite soil.

BBDA 2A:

• Chromium and selenium.

The upper confidence limit on a mean of a dataset represents the concentration of a chemical of concern (COC) at site to which receptor(s) are exposed. If these representative concentrations do not exceed site specific cleanup levels, then the presence of those COCs in soil at the site are not considered to pose unacceptable risk.

Ninety-five percent (%) upper confidence limit on a population mean (UCL) calculations were performed using data from final excavation confirmation samples collected from each site. The data sets used excluded metals analytical results for samples collected from cells prior to over-excavation. Tables J-1 and J-2 present the data used for the UCL calculations, and Tables J-3 through J-5 present the data output.

KB62800 APPENDIX J.doc-Presidio

To calculate appropriate UCL values, the United States Environmental Protection Agency's (USEPA) software package ProUCL v.4.00.02 was used. This recently released package (March, 2008) incorporates guidance by the USEPA in appropriate calculations of UCLs, including advanced methods of treating non-detect values and properly determining UCLs for data sets that are not normally- or lognormally-distributed. In particular, methods described in the following EPA documents were used:

- Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites (EPA, 2002a).
- The revised Guidance for Comparing Background and Chemical Concentrations in Soil for CERCLA Sites (EPA, 2002b).

The following summarizes the UCLs calculated for these specific metals at each site:

			Calculated UCL (mg/l	kg)
Metal	Cleanup Level (mg/kg)	BBDA 1	BBDA 1 Serpentinite	BBDA 2A
Arsenic	5.4	NA	2.134	NA
Barium	320	148.2	NA	NA
Chromium	1700	1052	NA	850.2
Cobalt	170	84.31	NA	NA
Nickel	4500	2174	NA	NA
Selenium	0.5	NA	NA	0.212
Vanadium	74	40.66	NA	NA

Review of these results show that calculated UCLs do not exceed cleanup levels; therefore, there appears to be no significant risk to receptors from residual metals concentrations in soil at the two sites.

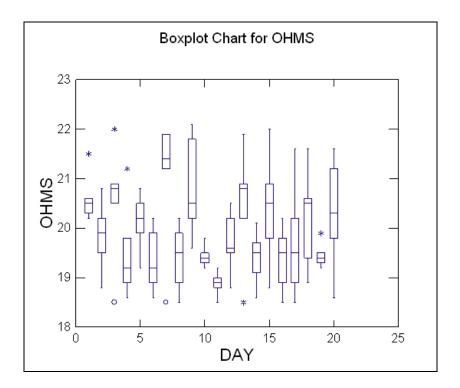
J2.0 Statistical Comparison of Metals Concentrations in Franciscan Melange to Serpentinite

Arsenic concentrations were higher in samples collected from Franciscan melange than samples from serpentinite and a significant percentage of the samples collected from Franciscan melange contained arsenic above the cleanup level, which for the BBDAs, is the background concentration for serpentinite soil, the most predominant soil type at the site. It is noted that there are no Presidio background levels for metals in Franciscan melange.

KB62800 APPENDIX J.doc-Presidio

Statistical tests were performed to evaluate whether there is a different metals signature between Franciscan melange and serpentinite to support the assumption that the arsenic background level for serpentinite is not applicable to evaluating metals concentrations, specifically arsenic, in samples collected from Franciscan melange. The statistical tests performed included Kruskal-Wallis One-Way Analysis of Variance (KW). In addition, the data were compared using box and whisker plots.

The KW test is a non-parametric (no assumption of normal distribution) test to determine if two or more group's medians are the same. For two groups, the KW test is equivalent to the more common Mann-Whitney U-test. The test fails if at least one of the group's medians is significantly different from the rest. For the current analysis, failure of the KW test would be evidence of differences between Franciscan melange and serpentinite.



Example of Box-and-Whisker Plots for Data Comparisons

Box and whisker plots are a graphical means of visually assessing similarities in distribution between data sets. They provide a convenient way to inspect the characteristics of entire statistical distributions visually. The charts show a series of box plots for the distribution of a variable's values. The chart enables simultaneous comparisons of central tendency (medians – cross-line in interior of box), sample

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APPENDIX J

variability (inter-quartile range – box length), non-outlier value range (whiskers) and the detection of

outliers (unusually small or large values - asterisks). The position of the median helps identify skewed

distributions. Boxes that overlap from group to group suggest similar distributions.

The data used comprised metal analytical results for excavation confirmation soil samples collected as of

November 20, 2007 from the two sites. These data were subdivided into two sample sets, one comprising

confirmation sample metals data collected upslope of the Franciscan melange serpentinite contact

(representing serpentinite) and the other confirmation sample metals data from within and below the

transitional contact zone and below (representing Franciscan melange). These data are presented in

Tables J-6 and J-7.

Significant Differences (probability of difference greater than 95%) were identified using Kruskal-Wallis

One-way Analysis of Variance (as reported by SYStat v12) for the following metals:

- Arsenic
- Barium
- Beryllium
- Chrome
- Cobalt
- Copper
- Lead
- Mercury
- Molybdenum
- Nickel
- Selenium
- Silver
- Vanadium
- Zinc

J-4

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No significant differences (probability greater than 95%) were identified for the following metals:

- Antimony
- Cadmium
- Thallium

Attachment 1 provides output from the statistical programs used and box and whisker plots for the metals for each soil type.

Results of the Kruskal-Wallis tests showed that for 14 metals (arsenic, barium, beryllium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, vanadium, and zinc) there is a statistical difference between metals concentrations in Franciscan melange compared to serpentinite. Trend analysis using box and whisker plots also supports that there are significant differences in metal concentrations between the two soil types.

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References

U.S. Environmental Protection Agency (USEPA), 2002a. Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. OSWER 9285.6-10. December 2002.
_______, 2002b. Guidance for Comparing Background and Chemical Concentrations in Soil for CERCLA Sites. EPA 540-R-01-003-OSWER 9285.7-41. September 2002.

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TABLES

Sample Name	Sample Number	Location	Lith Type	Arsenic	D_Arsenic	Barium	D_Barium	Beryllium	D_Beryllium	Chromium	D_Chromium	Cobalt	D_Cobalt	Nickel	D_Nickel	Silver	Vanadium	D_Vanadium
BB1EX100	BB1EX100[0.0]	F3 (perimeter)	Serpentenite	2.9	a	1 -	76	1 0.1	Q	1 15	1	1 14	ı	1 150	n	1 0.26	47	7 1
BB1EX101	BB1EX101[0.0]	F3 (bottom)	Serpentenite	1.8			64	1 0.		1 21		1 34		1 900		1 0.28	35	
BB1EX101	DUP082707	F3 (bottom)	Serpentenite	1.7			48	1 0.		1 55		1 44		1 120		1 0.20	44	
BB1EX103	BB1EX103[0.0]	E4 (bottom)	Serpentenite	0.46			.1	1 0.		0 170		1 84		1 200		1 0.29	39	
BB1EX103	BB1EX103[0.0] BB1EX104[0.0]	F4 (bottom)	Serpentenite	1.1			51	1 0.2		0 390		1 240		1 510		1 0.29	11(
BB1EX105		F4 (perimeter)	Serpentenite	0.89			20	1 0.2		1 90		1 60		1 150		1 0.32	22	
BB1EX105	BB1EX105[0.0] BB1EX106[0.0]	F2 (bottom)	Serpentenite	1.6			<u>20</u> 65	1 0.0		1 190		1 180		1 450		1 0.20	46	
BB1EX100	BB1EX107[0.0]	F2 (perimeter)	Serpentenite	5.5			30	1 0.2		1 170		1 61		1 250		1 0.42	62	
BB1EX107	DUP091707	F2 (perimeter)	Serpentenite	4.8			75	1 0.2		1 19		1 29		1 230		1 0.27	58	
BB1EX108	BB1EX108[0.0]	E5 (bottom)	•	3.7			53	1 0.2		1 32		1 29		1 630		1 0.27	45	
BB1EX109		,	Serpentenite															
	BB1EX109[0.0]	F5 (bottom)	Serpentenite	1.7			18	1 0.07		1 89		1 88		1 210		1 0.32	33	
BB1EX110	BB1EX110[0.0]	G5 (bottom)	Serpentenite	2.6			31	1 0.1		1 77		1 71		1 210		1 0.32	36	
BB1EX111	BB1EX111[0.0]	G5 (perimeter)	Serpentenite	3.3			20	1 0.6		1 43		1 29		1 790		1 0.29	69	
BB1EX112	BB1EX112[0.0]	G6 (bottom)	Serpentenite	6.3			30	1 0.4		1 36		1 33		1 550		1 0.29	62	
BB1EX113	BB1EX113[0.0]	G6 (perimeter)	Serpentenite	3.3		1 100		1 0.2		1 58		1 64		1 190		1 0.3	39	
BB1EX114	BB1EX114[0.0]	F6 (bottom)	Serpentenite	0.96			.3	1 0.05		1 100		1 90		1 210		1 0.29	33	
BB1EX115	BB1EX115[0.0]	G4 (perimeter)	Serpentenite	2.7		1 :	51	1 0.1		1 71		1 72		1 160		1 0.29	49	
BB1EX116	BB1EX116[0.0]	E6 (bottom)	Serpentenite	0.3	3	1	5	1 0.2		0 110		1 66		1 160		1 0.27	23	
BB1EX117	BB1EX117[0.0]	E7(bottom)	Melange				30	1 0.8		1 64		1 40		1 890		1 0.068	74	
BB1EX120	BB1EX120[0.0]	E9 (perimeter)	Melange				50	1 0.6		1 37		1 28		1 520		1 0.1	74	
BB1EX122	BB1EX122[0.0]	F7(bottom)	Melange			2	28	1 0.1		1 120		1 87		1 240		1 0.033	35	5 1
BB1EX123	BB1EX123[0.0]	E3(bottom)	Melange			•	12	1 0.09		1 21)	1 57		1 120		1 0.12	23	
BB1EX124	BB1EX124[0.0]	F7 (perimeter)	Melange			5	.3	1 0.0	2	1 76)	1 62	!	1 160		1 0.02	29	9 1
BB1EX124	DUP092707	F7 (perimeter)	Melange				4	1 0	3	0 35)	1 62	!	1 140	0	1 0.019	23	3 1
BB1EX125	BB1EX125[0.0]	E10 (perimeter)	Melange			;	32	1 0.5	2	1 5	7	1 13	}	1 78	8	1 0.14	47	7 1
BB1EX126	BB1EX126[0.0]	D7 (Bottom)	Melange				55	1 0.3	3	1 48)	1 46	;	1 900	0	1 0.071	43	3 1
BB1EX127	BB1EX127[0.0]	D10 (Perimeter-west)	Melange			;	30	1 0	4	1 29)	1 29)	1 460	0	1 0.089	56	5 1
BB1EX128	BB1EX128[0.0]	D8 (Bottom)	Melange				58	1 0.7	9	1 45)	1 39)	1 580	0	1 0.094	89	9 1
BB1EX129	BB1EX129[0.0]	D7 (Bottom)	Melange				59	1 0.2	6	1 16)	1 19)	1 210	0	1 0.11	33	3 1
BB1EX130	BB1EX130[0.0]	D10 (Perimeter -south)	Melange			4	14	1 0.4	.8	1 3:	2	1 14	ļ	1 5	5	1 0.084	38	3 1
BB1EX130	DUP110207	D10 (Perimeter -south)	Melange			4	40	1 0.4	3	1 3	5	1 14	ļ	1 54	4	1 0.1	34	1 1
BB1EX131	BB1EX131[0.0]	C9 (Bottom)	Melange			2	.8	1 0.2	9	0 77)	1 79)	1 180	0	1 0.29	13	3 1
BB1EX132	BB1EX132[0.0]	C9 (Perimeter -west)	Melange			3	.7	1 0.2		0 65)	1 71		1 170	0	1 0.0095	19	9 1
BB1EX133	BB1EX133[0.0]	C8 (Bottom)	Melange			2	.3	1 0.2		0 56		1 120)	1 410	0	1 0.29	6.5	5 1
BB1EX134	BB1EX134[0.0]	B9 (Bottom)	Melange			7	.5	1 0.2		0 54		1 73		1 140		1 0.29	16	5 1
BB1EX135	BB1EX135[0.0]	B9 (Perimeter-west)	Melange				.3	1 0		0 70		1 72		1 180		1 0.3	14	
BB1EX136	BB1EX136[0.0]	A9 (Bottom)	Melange				1	1 0.3		0 92		1 69		1 160		1 0.33	10	
BB1EX137	BB1EX137[0.0]	A9 (Perimeter -west)	Melange			0.0	67	1 0		0 79		1 69		1 160		1 0.3	8.3	
BB1EX138	BB1EX138[0.0]	F8 (Perimeter - resample)	Melange				97	1 0.4		1 5		1 22		1 89		1 0.094	47	
BB1EX139	BB1EX139[0.0]	E8 (Bottom - resample)	Melange				76	1 0.5		1 4		1 50		1 80		1 0.17	47	
BB1EX140	BB1EX140[0.0]	E9 (Bottom - resample)	Melange				69	1 0.5		1 100		1 57		1 1000		1 0.11	81	
BB1EX141	BB1EX141[0.0]	A9 (Perimeter -south)	Melange				76	1 0.2		1 43		1 34		1 600		1 0.088	36	
BB1EX142	BB1EX142[0.0]	A8 (Perimeter -south)	Melange				.4	1 0.02		1 80		1 73		1 170		1 0.0059	21	
BB1EX143	BB1EX143[0.0]	A8 (Bottom)	Melange				. - 12	1 0.02		1 75		1 110		1 260		1 0.0033	31	
BB1EX144	BB1EX144[0.0]	B8 (Bottom)	Melange				.4	1 0.2		0 120		1 85		1 180		1 0.015	15	
BB1EX145	BB1EX145[0.0]	A7 (Perimeter)	Melange				. 65	1 0.2		1 6		1 16		1 88		1 0.013	31	
BB1EX146	BB1EX146[0.0]	A7 (Perimeter) A7 (Bottom)	Melange				67	1 0.2		1 6		1 12		1 78		1 0.046	27	
BB1EX147	BB1EX147[0.0]		Melange				38	1 0.5		1 4		1 22		1 64		1 0.046	41	
BB1EX148		B7 (Bottom)	_											1 5				
	BB1EX148[0.0]	C7 (Bottom)	Melange				76 - 4	1 0		1 50		1 14				1 0.096	48	
BB1EX148	DUP110807	C7 (Bottom)	Melange	0.00			54	1 0.4		1 3		1 12		1 40		1 0.08	42	
BB1EX150	BB1EX150[0.0]	A6 (Perimeter)	Serpentenite	0.68			19	1 0.3		0 130		1 140		1 290		1 0.32	36	
BB1EX151	BB1EX151[0.0]	A6 (Bottom)	Serpentenite	0.73			27	1 0.03		1 130		1 120		1 290		1 0.33	33	
BB1EX152	BB1EX152[0.0]	B6 (Bottom)	Serpentenite	0.28	•	1 7	.8	1 0.2	.9	0 120	J	1 74	•	1 180	U	1 0.29	28) 1

Table J-1. Metals Results Used to Calculate UCLs

Baker Beach Disturbed Area 1

December 2008

KB62800	Table	J1.xls

Sample Name	Sample Number	Location	Lith Type	Arsenic	D_Arsenic	Barium	D_Barium	Beryllium	D_Beryllium	Chromium	D_Chromium	Cobali	D_Cobalt	Nickel	D_Nickel	Sil	ver '	Vanadium	D_Vanadium
BB1EX153	BB1EX153[0.0]	A5 (Perimeter)	Serpentenite	0.96		1 1		1 0.034		1 81			39	1 250		1	0.33	28	1
BB1EX154	BB1EX154[0.0]	A5 (Bottom)	Serpentenite	2.2		1 4	-	1 0.19		1 160			30	1 310			0.085	48	1
BB1EX155	BB1EX155[0.0]	D4 (Bottom)	Serpentenite	0.39)	1 1.		1 0.026		1 130			33	1 170		1	0.028	31	1
BB1EX156	BB1EX156[0.0]	D5(Bottom)	Serpentenite	3	1	1 3		1 0.2		1 3			17	1 3		1	0.09	30	1
BB1EX158	BB1EX158[0.0]	C4 (Bottom)	Serpentenite	0.048		1 0.2		1 0.28		0 11			26	1 63			0.0055	5.3	1
BB1EX159	BB1EX159[0.0]	C-5 (Bottom)	Serpentenite	0.59	1	1 5	8	1 0.13		1 43			37	1 73		1	0.014	27	1
BB1EX160	BB1EX160[0.0]	D-5 (Bottom)	Melange			1	7	1 0.27		0 100			58	1 150		1	0.27	18	1
BB1EX161	BB1EX161[0.0]	B-5 (Bottom)	Serpentenite	0.63		1 2		1 0.32		0 78			61	1 200		1	0.32	23	1
BB1EX161	DUP112007-1	B-5 (Bottom)	Serpentenite	0.39		1 8.		1 0.29		0 61			64	1 140		1	0.29	25	1
BB1EX162	BB1EX162[0.0]	B-4 (Bottom)	Serpentenite	0.81		1 8.	2	1 0.29		0 80			93	1 220		1	0.29	13	1
BB1EX163	BB1EX163[0.0]	A-4 (Perimeter)	Serpentenite	0.82		1 1	-	1 0.36		0 160			30	1 330		1	0.36	46	1
BB1EX163	DUP112007-2	A-4 (Perimeter)	Serpentenite	0.69		1 1	•	1 0.31		0 110			37	1 220		1	0.31	32	1
BB1EX164	BB1EX164[0.0]	B-3 (Bottom)	Serpentenite	0.11		1 1.		1 0.28		0 58			66	1 130		1	0.28	13	1
BB1EX165	BB1EX165[0.0]	B-3 (Perimeter)	Serpentenite	1.2		1 1		1 0.27		0 97	0	1	77	1 170		1	0.27	27	1
BB1EX166	BB1EX166[0.0]	D-2 (Sidewall-south)	Serpentenite	0.96	;	1 2	1	1 0.38	}	0 64	0	1 1	10	1 260		1	0.38	27	1
BB1EX167	BB1EX167[0.0]	D-2 (Bottom-east)	Serpentenite	1		1 1	2	1 0.42		0 92	0	1 1	40	1 330)	1	0.42	24	1
BB1EX168	BB1EX168[0.0]	D-2 (Bottom-west)	Serpentenite	0.88	}	1 13	0	1 0.35	;	0 48	0	1	35	1 180)	1	0.14	20	1
BB1EX169	BB1EX169[0.0]	E-2 (Sidewall-north)	Serpentenite	1.1		1 2	4	1 0.31		0 82		1	31	1 200		1	0.31	33	1
BB1EX170	BB1EX170[0.0]	D-1 (Sidewall-east)	Serpentenite	4.4		1 9	4	1 0.3		1 120	0	1 1:	30	1 330)	1	0.11	54	1
BB1EX171	BB1EX171[0.0]	C2 (Perimeter-east)	Serpentenite	0.63	}	1 1	4	1 0.094	ļ	1 79	0	1 1	50	1 270)	1	0.082	27	1
BB1EX172	BB1EX172[0.0]	C2 (Bottom)	Serpentenite	0.37	•	1 7.	2	1 0.012	!	1 82	0	1	59	1 120)	1	0.013	27	1
BB1EX173	BB1EX173[0.0]	C2 (Perimeter-south)	Serpentenite	0.61		1 1.	3	1 0.29		0 85	0	1	31	1 180)	1	0.29	30	1
BB1EX174	BB1EX174[0.0]	E2 (Perimeter-east)	Serpentenite	2.4		1 8	4	1 0.22		1 10	0	1	12	1 12)	1	0.047	53	1
BB1EX174	DUP112107	E2 (Perimeter-east)	Serpentenite	4		1 8	3	1 0.23	}	1 12	0	1 ;	30	1 15)	1	0.027	59	1
BB1EX175	BB1EX175[0.0]	E2 (Perimeter-west)	Serpentenite	1.9)	1 4	7	1 0.15	;	1 24	0	1 :	26	1 37)	1 0	0.0083	42	1
BB1EX176	BB1EX176[0.0]	D3 (Bottom)	Serpentenite	0.44		1	3	1 0.32		0 22	0	1	59	1 120)	1	0.32	14	1
BB1EX177	BB1EX177[0.0]	SW-BBDA1-W	Melange			26	0	1 0.37	•	1 46	0	1 ;	35	1 60)	1	0.063	50	1
BB1EX178	BB1EX178[0.0]	SW-BBDA1-M	Melange			6	4	1 0.28	}	1 9	9	1	12	1 12)	1	0.037	45	1
BB1EX179	BB1EX179[0.0]	SW-BBDA1-E	Melange			8	1	1 0.34		1 9	6	1	11	1 11)	1	0.034	48	1

Notes:

Columns beginning with "D_" are detection indicators for each sample per analyte. A value of "1" indicates a detected values while a "0" indicates a non-detect value.

Prepared by: MJH Checked by: LP Approved by: TG

Construction Completion Report BBDAs 1and 2A Landfill Removal Presidio of San Francisco, CA MACTEC 4084075118

Table J-2. Metals Results Used to Calculate UCLs
Baker Beach Disturbed Area 2A

KB62800_Table J2.xls

Station Name	Sample Number	Sample Location/Grid	Lith Type	SampleDate	Chromium	D_Chromium	Selenium	D_Selenium
		_						
BB2AEX100	BB2AEX100[4.0]	•	serpentinite	9/18/07		1	0.26	1
BB2AEX101	BB2AEX101[3.0]	•	serpentinite	9/18/07		1	0.14	1
BB2AEX102	BB2AEX102[3.5]	•	serpentinite	9/18/07		1	0.25	1
BB2AEX103	BB2AEX103[0.0]	,	serpentinite	10/15/07		1	0.024	1
BB2AEX104	BB2AEX104[0.0]	E3 (Perimeter)	serpentinite	10/15/07	1200	1	0.51	1
BB2AEX105	BB2AEX105[0.0]	` ,	serpentinite	10/15/07		1	0.019	1
BB2AEX106	BB2AEX106[0.0]	E4 (Perimeter)	serpentinite	10/15/07	800	1	0.098	1
BB2AEX107	BB2AEX107[0.0]	D3 (Bottom)	serpentinite	10/15/07	1800	1	0.041	1
BB2AEX107	DUP101507	D3 (Bottom)	serpentinite	10/15/07	1200	1	0.026	1
BB2AEX109	BB2AEX109[0.0]	D4 (Bottom)	serpentinite	10/15/07	820	1	0.042	1
BB2AEX110	BB2AEX110[0.0]	C4 (Bottom)	serpentinite	10/15/07	1100	1	0.036	1
BB2AEX111	BB2AEX111[0.0]	C3 (Bottom)	serpentinite	10/15/07	830	1	0.038	1
BB2AEX112	BB2AEX112[0.0]	C3 (Perimeter)	serpentinite	10/15/07	690	1	0.023	1
BB2AEX113	BB2AEX113[0.0]	B3 (Perimeter)	serpentinite	10/15/07	1000	1	0.086	1
BB2AEX114	BB2AEX114[0.0]	,	serpentinite	10/15/07	1400	1	0.089	1
BB2AEX115	BB2AEX115[0.0]	,	serpentinite	10/15/07	1700	1	0.29	0
BB2AEX116	BB2AEX116[0.0]	· ·	serpentinite	10/22/07	1100	1	0.29	0
BB2AEX117	BB2AEX117[0.0]	` ,	serpentinite	10/22/07		1	0.27	0
BB2AEX118	BB2AEX118[0.0]	,	serpentinite	10/22/07		1	0.021	1
BB2AEX118	DUP102207	C5 (Bottom)	serpentinite	10/22/07		1	0.27	0
BB2AEX119	BB2AEX119[0.0]	,	serpentinite	10/22/07		1	0.26	0
BB2AEX120	BB2AEX120[0.0]	,	serpentinite	10/22/07		1	0.29	0
BB2AEX121	BB2AEX121[0.0]	,	serpentinite	10/22/07		1	0.27	0
BB2AEX122	BB2AEX122[0.0]	,	serpentinite	10/22/07		1	0.27	0
BB2AEX123	BB2AEX123[0.0]	` ,	serpentinite	10/23/07		1	0.036	1
BB2AEX123	DUP102307	E5 (Perimeter)	serpentinite	10/23/07		1	0.048	1
BB2AEX124	BB2AEX124[0.0]	` ,	serpentinite	10/23/07		1	0.024	1
BB2AEX125	BB2AEX125[0.0]	,	serpentinite	10/23/07		1	0.031	1
BB2AEX126	BB2AEX126[0.0]	,	melange	10/23/07		1	0.068	1
BB2AEX127	BB2AEX127[0.0]	,	melange	10/24/07		1	0.15	1
BB2AEX128	BB2AEX128[0.0]	` ,	melange	10/24/07		1	0.13	1
BB2AEX129	BB2AEX129[0.0]	,	melange	10/24/07		1	0.23	1
BB2AEX130	BB2AEX130[0.0]	,	melange	10/24/07		1	0.036	1
DDZMENIOU		לם (שטונטווו)	meiange	10/24/07	1200	ı	0.23	I

Table J-2. Metals Results Used to Calculate UCLs

Baker Beach Disturbed Area 2A

KB62800_Table J2.xls

December 2008

Station Name	Sample Number	Sample Location/Grid	Lith Type	SampleDate	Chromium	D_Chromium	Selenium	D_Selenium
BB2AEX131	BB2AEX131[0.0]	,	melange	10/24/07		1	0.025	1
BB2AEX132		` ,	melange	10/24/07	690	1	0.032	1
BB2AEX133		,	melange	10/24/07		1	0.027	1
BB2AEX134	BB2AEX134[0.0]	B8 (Bottom)	melange	10/24/07	1000	1	0.032	1
BB2AEX135	BB2AEX135[0.0]	C8 (Bottom)	melange	10/24/07	220	1	0.39	1
BB2AEX136	BB2AEX136[0.0]	8E (Perimeter)	melange	10/26/07	230	1	0.2	1
BB2AEX136	DUP102607	8E (Perimeter)	melange	10/26/07	290	1	0.29	1
BB2AEX137	BB2AEX137[0.0]	8D (Bottom)	melange	10/26/07	220	1	0.36	1
BB2AEX138	BB2AEX138[0.0]	9A (Perimeter)	melange	10/26/07	230	1	0.26	1
BB2AEX139	BB2AEX139[0.0]	9B (Bottom)	melange	10/26/07	870	1	0.33	0
BB2AEX140	BB2AEX140[0.0]	9B (Perimeter)	melange	10/26/07	25	1	0.14	1
BB2AEX141	BB2AEX141[0.0]	9C (Bottom)	melange	10/26/07	180	1	0.19	1
BB2AEX142	BB2AEX142[0.0]	9C (Perimeter)	melange	10/26/07	60	1	0.23	1
BB2AEX143			melange	10/26/07	380	1	0.56	1
BB2AEX144	BB2AEX144[0.0]	9D (Perimeter)	melange	10/26/07	340	1	0.27	1
BB2AEX145	BB2AEX145[0.0]		melange	10/26/07	62	1	0.28	1
BB2AEX146	BB2AEX146[0.0]	,	serpentinite	11/21/07	540	1	0.027	1
BB2AEX147	BB2AEX147[0.0]	,	serpentinite	11/21/07	1000	1	0.02	1
BB2AEX148	BB2AEX148[0.0]	F2 (Bottom)	serpentinite	11/21/07	160	1	0.063	1
BB2AEX153	• •	F4 (perimeter-north-resample)	serpentinite	12/18/07		1	0.097	1
BB2AEX154		F4 (perimeter-north-resample)	serpentinite	12/18/07		1	0.15	1
BB2AEX154	DUP121807	F4 (bottom - resample)	serpentinite	12/18/07		1	0.31	1
BB2AEX155	BB2AEX155[0.0]	• ,	serpentinite	1/14/08		1	0.1	1

Notes:

Columns beginning with "D_" are detection indicators for each sample per analyte. A value of "1" indicates a detected values while a "0" indicates a non-detect value.

Prepared by: MJH Checked by: LP Approved by: TG

Table J-3. UCL Statistics for Selected Metals Baker Beach Disturbed Area 1

December 2008

64

1.535

87.87

KB62800_Table J-3.xls

General UCL Statistics for Data Sets with Non-Detects

User Selected Options	s	ntion	O	ected	Sel	User	
-----------------------	---	-------	---	-------	-----	------	--

From File C:\Documents and Settings\lrpfau\My Documents\Project files\UCLs\no overex data_Metals_BBDA1_final (2

Full Precision OFF Confidence Coefficient 95%

Number of Bootstrap Operations 2000

Barium

General Statistics

Median

Number of Valid Observations

Raw Statistics	Log-transformed Statistics	
Minimum	0.25 Minimum of Log Data	-1.386
Maximum	1000 Maximum of Log Data	6.908
Mean	60.84 Mean of log Data	3.137

31.5 SD of log Data

82 Number of Distinct Observations

SD 126.7 Coefficient of Variation 2.083 Skewness 5.825

Relevant UCL Statistics

Normal Distribution Test Lognormal Distribution Test

Data not Normal at 5% Significance Level	Data not Lognormal at 5% Significance Level	
Lilliefors Critical Value	0.0978 Lilliefors Critical Value	0.0978
Lilliefors Test Statistic	0.318 Lilliefors Test Statistic	0.104

Data not Normal at 5% Significance Level

Assuming Normal Distribution Assuming Lognormal Distribution

95% Student's-t UCL	84.13 95% H-UCL	120.4
95% UCLs (Adjusted for Skewness)	95% Chebyshev (MVUE) UCL	146.8
95% Adjusted-CLT UCL	93.48 97.5% Chebyshev (MVUE) UCL	178.9
95% Modified-t UCL	85.63 99% Chebyshev (MVUE) UCL	242

Gamma Distribution Test Data Distribution

k star (bias corrected)	0.617 Data do not follow a Discernable Distribution (0.05)
Theta Star	98.69
nu star	101.1

Approximate Chi Square Value (.05) 78.91 Nonparametric Statistics Adjusted Level of Significance 0.0471 95% CLT UCI

Adjusted Level of Significance	0.0471	95% CLT UCL	83.86
Adjusted Chi Square Value	78.56	95% Jackknife UCL	84.13
		95% Standard Bootstrap UCL	84.88
Anderson-Darling Test Statistic	1.316	95% Bootstrap-t UCL	112.3
Anderson-Darling 5% Critical Value	0.805	95% Hall's Bootstrap UCL	186.1

Kolmogorov-Smirnov Test Statistic

95% Adjusted Gamma UCL

Kolmogorov-Smirnov 5% Critical Value	0.103 95% BCA Bootstrap UCL	97.72
Data not Gamma Distributed at 5% Significance Level	95% Chebyshev(Mean, Sd) UCL	121.8
	97.5% Chebyshev(Mean, Sd) UCL	148.2
Assuming Gamma Distribution	99% Chebyshev(Mean, Sd) UCL	200.1
95% Approximate Gamma UCL	77.96	

78.31

0.137

95% Percentile Bootstrap UCL

Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL 148.2

Table J-3. UCL Statistics for Selected Metals Baker Beach Disturbed Area 1

December 2008

KB62800_Table J-3.xls

Chromium

General Statistics		
Number of Valid Observations	82 Number of Distinct Observations	61
Raw Statistics	Log-transformed Statistics	
Minimum	32 Minimum of Log Data	3.466
Maximum	3900 Maximum of Log Data	8.269
Mean	655.2 Mean of log Data	6.018
Median	595 SD of log Data	1.135
SD	576.2	
Coefficient of Variation	0.879	
Skewness	2.414	
Relevant UCL Statistics		
Normal Distribution Test	Lognormal Distribution Test	
Lilliefors Test Statistic	0.14 Lilliefors Test Statistic	0.162
Lilliefors Critical Value	0.0978 Lilliefors Critical Value	0.0978
Data not Normal at 5% Significance Level	Data not Lognormal at 5% Significance Level	0.0070
Assuming Normal Distribution	Assuming Lognormal Distribution	
95% Student's-t UCL	761 95% H-UCL	1054
95% UCLs (Adjusted for Skewness)	95% Chebyshev (MVUE) UCL	1296
95% Adjusted-CLT UCL	777.9 97.5% Chebyshev (MVUE) UCL	1523
95% Modified-t UCL	763.9 99% Chebyshev (MVUE) UCL	1968
Gamma Distribution Test	Data Distribution	
k star (bias corrected)	1.174 Data do not follow a Discernable Distribution (0.05)
Theta Star	558.1	
nu star	192.5	
Approximate Chi Square Value (.05)	161.4 Nonparametric Statistics	
Adjusted Level of Significance	0.0471 95% CLT UCL	759.8
Adjusted Chi Square Value	160.9 95% Jackknife UCL	761
	95% Standard Bootstrap UCL	758.1
Anderson-Darling Test Statistic	1.318 95% Bootstrap-t UCL	782.7
Anderson-Darling 5% Critical Value	0.777 95% Hall's Bootstrap UCL	807.8
Kolmogorov-Smirnov Test Statistic	0.103 95% Percentile Bootstrap UCL	764.1
Kolmogorov-Smirnov 5% Critical Value	0.101 95% BCA Bootstrap UCL	779.5
Data not Gamma Distributed at 5% Significance Level	95% Chebyshev(Mean, Sd) UCL	932.5
	97.5% Chebyshev(Mean, Sd) UCL	1052
Assuming Gamma Distribution	99% Chebyshev(Mean, Sd) UCL	1288
95% Approximate Gamma UCL	781.4	
95% Adjusted Gamma UCL	783.8	
Potential UCL to Use	Use 97.5% Chebyshev (Mean, Sd) UCL	1052

Potential UCL to Use

Table J-3. UCL Statistics for Selected Metals Baker Beach Disturbed Area 1

December 2008

84.31

KB62800_Table J-3.xls

Cobalt

General Statistics		
Number of Valid Observations	82 Number of Distinct Observations	52
Raw Statistics	Log-transformed Statistics	
Minimum	11 Minimum of Log Data	2.398
Maximum	240 Maximum of Log Data	5.481
Mean	63.79 Mean of log Data	3.912
Median	61.5 SD of log Data	0.75
SD	42.61	
Coefficient of Variation	0.668	
Skewness	1.281	
Relevant UCL Statistics		
Normal Distribution Test	Lognormal Distribution Test	
Lilliefors Test Statistic	0.111 Lilliefors Test Statistic	0.167
Lilliefors Critical Value	0.0978 Lilliefors Critical Value	0.0978
Data not Normal at 5% Significance Level	Data not Lognormal at 5% Significance Level	
Accuming Normal Distribution	Accuming Lognormal Distribution	
Assuming Normal Distribution 95% Student's-t UCL	Assuming Lognormal Distribution 71.62 95% H-UCL	78.49
		76.49 92.58
95% UCLs (Adjusted for Skewness)	95% Chebyshev (MVUE) UCL	104.1
95% Adjusted-CLT UCL	72.24 97.5% Chebyshev (MVUE) UCL	
95% Modified-t UCL	71.73 99% Chebyshev (MVUE) UCL	126.7
Gamma Distribution Test	Data Distribution	
k star (bias corrected)	2.135 Data do not follow a Discernable Distribution (0.05)
Theta Star	29.88	
nu star	350.2	
Approximate Chi Square Value (.05)	307.8 Nonparametric Statistics	
Adjusted Level of Significance	0.0471 95% CLT UCL	71.53
Adjusted Chi Square Value	307.1 95% Jackknife UCL	71.62
	95% Standard Bootstrap UCL	71.51
Anderson-Darling Test Statistic	0.897 95% Bootstrap-t UCL	72.1
Anderson-Darling 5% Critical Value	0.763 95% Hall's Bootstrap UCL	72.56
Kolmogorov-Smirnov Test Statistic	0.123 95% Percentile Bootstrap UCL	72.13
Kolmogorov-Smirnov 5% Critical Value	0.0998 95% BCA Bootstrap UCL	72.2
Data not Gamma Distributed at 5% Significance Level	95% Chebyshev(Mean, Sd) UCL	84.31
	97.5% Chebyshev(Mean, Sd) UCL	93.18
Assuming Gamma Distribution	99% Chebyshev(Mean, Sd) UCL	110.6
95% Approximate Gamma UCL	72.57	
95% Adjusted Gamma UCL	72.74	

Use 95% Chebyshev (Mean, Sd) UCL

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Potential UCL to Use

Table J-3. UCL Statistics for Selected Metals Baker Beach Disturbed Area 1

December 2008

KB62800_Table J-3.xls

Nickel

General Statistics		
Number of Valid Observations	82 Number of Distinct Observations	49
Raw Statistics	Log-transformed Statistics	
Minimum	38 Minimum of Log Data	3.638
Maximum	5100 Maximum of Log Data	8.537
Mean	1403 Mean of log Data	6.69
Median	1400 SD of log Data	1.316
SD	1119	
Coefficient of Variation	0.798	
Skewness	0.858	
Relevant UCL Statistics		
Normal Distribution Test	Lognormal Distribution Test	
Lilliefors Test Statistic	0.111 Lilliefors Test Statistic	0.205
Lilliefors Critical Value	0.0978 Lilliefors Critical Value	0.0978
Data not Normal at 5% Significance Level	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	Assuming Lognormal Distribution	
95% Student's-t UCL	1608 95% H-UCL	2777
95% UCLs (Adjusted for Skewness)	95% Chebyshev (MVUE) UCL	3428
95% Adjusted-CLT UCL	1618 97.5% Chebyshev (MVUE) UCL	4099
95% Modified-t UCL	1610 99% Chebyshev (MVUE) UCL	5417
Gamma Distribution Test	Data Distribution	
k star (bias corrected)	1.005 Data do not follow a Discernable Distribution (0.0	(5)
Theta Star	1396	
nu star	164.8	
Approximate Chi Square Value (.05)	136.1 Nonparametric Statistics	
Adjusted Level of Significance	0.0471 95% CLT UCL	1606
Adjusted Chi Square Value	135.7 95% Jackknife UCL	1608
	95% Standard Bootstrap UCL	1605
Anderson-Darling Test Statistic	2.281 95% Bootstrap-t UCL	1620
Anderson-Darling 5% Critical Value	0.781 95% Hall's Bootstrap UCL	1626
Kolmogorov-Smirnov Test Statistic	0.157 95% Percentile Bootstrap UCL	1595
Kolmogorov-Smirnov 5% Critical Value	0.101 95% BCA Bootstrap UCL	1617
Data not Gamma Distributed at 5% Significance Level	95% Chebyshev(Mean, Sd) UCL	1941
	97.5% Chebyshev(Mean, Sd) UCL	2174
Assuming Gamma Distribution	99% Chebyshev(Mean, Sd) UCL	2632
95% Approximate Gamma UCL	1698	
95% Adjusted Gamma UCL	1704	

Use 97.5% Chebyshev (Mean, Sd) UCL

2174

Table J-3. UCL Statistics for Selected Metals Baker Beach Disturbed Area 1

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KB62800_Table J-3.xls

Vanadium

General Statistics			
Number of Valid Observations	82	Number of Distinct Observations	49
Raw Statistics		Log-transformed Statistics	
Minimum	5.3	Minimum of Log Data	1.668
Maximum	110	Maximum of Log Data	4.7
Mean	36.83	Mean of log Data	3.465
Median	33	SD of log Data	0.568
SD	19		
Coefficient of Variation	0.516		
Skewness	1.12		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.103	Lilliefors Test Statistic	0.114
Lilliefors Critical Value	0.0978	Lilliefors Critical Value	0.0978
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Lev	el
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	40.32	95% H-UCL	42.34
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	48.48
95% Adjusted-CLT UCL	40.56	97.5% Chebyshev (MVUE) UCL	53.22
95% Modified-t UCL	40.37	99% Chebyshev (MVUE) UCL	62.55
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.576	Data appear Gamma Distributed at 5% Sign	ificance Level
Theta Star	10.3		
nu star	586.5		
Approximate Chi Square Value (.05)	531.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	40.28
Adjusted Chi Square Value	530.4	95% Jackknife UCL	40.32
		95% Standard Bootstrap UCL	40.16
Anderson-Darling Test Statistic	0.342	95% Bootstrap-t UCL	40.63
Anderson-Darling 5% Critical Value	0.757	95% Hall's Bootstrap UCL	40.77
Kolmogorov-Smirnov Test Statistic	0.08	95% Percentile Bootstrap UCL	40.28
Kolmogorov-Smirnov 5% Critical Value	0.0992	95% BCA Bootstrap UCL	40.72
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	45.98
• • • • • • • • • • • • • • • • • • • •		97.5% Chebyshev(Mean, Sd) UCL	49.93
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	57.71
-	40.66	• • • •	57.71
Assuming Gamma Distribution	40.66 40.73		57.71

Checked by: LP

Approved by: TG

December 2008

0.1 1.02

KB62800_Table_J-4.xls

General UCL Statistics for Data Sets with Non-Detects

User	Sel	lected	0	ptions
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General Statistics

95% Adjusted Gamma UCL

From File WorkSheet.wst

Full Precision OFF Confidence Coefficient 95%

Number of Bootstrap Operations 2000

Arsenic (serpentenite)

Number of Valid Observations	46	Number of Distinct Observations	39
Raw Statistics		Log-transformed Statistics	
Minimum	0.048	Minimum of Log Data	-3.037
Maximum	6.3	Maximum of Log Data	1.841

Mean	1.692	Mean of log Data	
Median	0.98	SD of log Data	
SD	1.52		
Coefficient of Variation	0.898		
Skewness	1.331		

Relevant UCL Statistics Normal Distribution Test Lognormal Distribution Test

Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic 0.962 0.842 Shapiro Wilk Critical Value 0.945 Shapiro Wilk Critical Value 0.945 Data appear Lognormal at 5% Significance Level Data not Normal at 5% Significance Level

Assuming Normal Distribution		Assuming Lognormal Distribution		
95% Student's-t UCL	2.068	95% H-UCL	2.659	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3.242	
95% Adjusted-CLT UCL	2.107	97.5% Chebyshev (MVUE) UCL	3.854	
95% Modified-t UCL	2.076	99% Chebyshev (MVUE) UCL	5.055	

95% Modified-t UCL Gamma Distribution Test	2.076	99% Chebyshev (MVUE) UCL Data Distribution	5.05
k star (bias corrected)	1.244	Data appear Gamma Distributed at 5% Sign	ificance Level

1.36		_
114.5		
90.78	Nonparametric Statistics	
0.0448	95% CLT UCL	2.06
90.1	95% Jackknife UCL	2.068
	95% Standard Bootstrap UCL	2.057
0.507	95% Bootstrap-t UCL	2.128
0.771	95% Hall's Bootstrap UCL	2.109
0.128	95% Percentile Bootstrap UCL	2.082
0.133	95% BCA Bootstrap UCL	2.088
el	95% Chebyshev(Mean, Sd) UCL	2.669
	114.5 90.78 0.0448 90.1 0.507 0.771 0.128	114.5 90.78 Nonparametric Statistics 0.0448 95% CLT UCL 90.1 95% Jackknife UCL 95% Standard Bootstrap UCL 0.507 95% Bootstrap-t UCL 0.771 95% Hall's Bootstrap UCL 0.128 95% Percentile Bootstrap UCL 0.133 95% BCA Bootstrap UCL

Kolmogorov-Smirnov rest Statistic	0.120	95% Percentile Bootstrap OCL	2.002
Kolmogorov-Smirnov 5% Critical Value	0.133	95% BCA Bootstrap UCL	2.088
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	2.669
		97.5% Chebyshev(Mean, Sd) UCL	3.091
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	3.921
95% Approximate Gamma UCI	2.134		

Potential UCL to Use Use 95% Approximate Gamma UCL 2.134

2.15

Approved by: TG

Checked by: LP

Table J-5. UCL Statistics for Selected Metals Baker Beach Disturbed Area 2A

December 2008

KB62800 Table J-5.xls

General UCL Statistics for Data Sets with Non-Detects

User Selected Options

From File C:\Documents and Settings\Irpfau\My Documents\Project files\UCLs\UCL Files\5_28\CombinedProUCLDataInp

Full Precision OFF
Confidence Coefficient 95%
Number of Bootstrap Operations 2000

Chromium

General Statistics

Number of Valid Observations 56 Number of Distinct Observations 39

Raw Statistics Log-transformed Statistics

Minimum 25 Minimum of Log Data 3.219

Maximum 1800 Maximum of Log Data 7.496

Mean 745.8 Mean of log Data 6.261

Median 805 SD of log Data 1.041

SD 466.9

Coefficient of Variation 0.626

Skewness 0.148

Relevant UCL Statistics

Normal Distribution Test Lognormal Distribution Test

Lilliefors Test Statistic 0.103

Lilliefors Critical Value 0.118

Lilliefors Critical Value 0.118

Data appear Normal at 5% Significance Level Data not Lognormal at 5% Significance Level

Assuming Normal Distribution Assuming Lognormal Distribution

95% Student's-t UCL 850.2 95% H-UCL 2211

 95% UCLs (Adjusted for Skewness)
 95% Chebyshev (MVUE) UCL 1529

 95% Adjusted-CLT UCL 849.7
 97.5% Chebyshev (MVUE) UCL 1806

95% Modified-t UCL 850.4 99% Chebyshev (MVUE) UCL 2352

Gamma Distribution Test Data Distribution

k star (bias corrected) 1.487 Data appear Normal at 5% Significance Level

Theta Star 501.6

nu star 166.5

Approximate Chi Square Value (.05) 137.7 Nonparametric Statistics

Adjusted Level of Significance 0.0457 95% CLT UCL 848.4

Adjusted Chi Square Value 137 95% Jackknife UCL 850.2 95% Standard Bootstrap UCL 847.3

Anderson-Darling Test Statistic 2.088 95% Bootstrap-t UCL 846.8

Anderson-Darling 5% Critical Value 0.768 95% Hall's Bootstrap UCL 852.2

Kolmogorov-Smirnov Test Statistic 0.175 95% Percentile Bootstrap UCL 849.9 Kolmogorov-Smirnov 5% Critical Value 0.121 95% BCA Bootstrap UCL 849.9

Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1018

97.5% Chebyshev(Mean, Sd) UCL 1135

Table J-5. UCL Statistics for Selected Metals Baker Beach Disturbed Area 2A

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KB62800_Table J-5.xls

Assuming Gamma Distribution

99% Chebyshev(Mean, Sd) UCL 1367

95% Approximate Gamma UCL 902 95% Adjusted Gamma UCL 906.6

Potential UCL to Use

Use 95% Student's-t UCL 850.2

Selenium

	General Statis	stics	
Number of Valid Data	56	Number of Detected Data	47
Number of Distinct Detected Data	38	Number of Non-Detect Data	9
		Percent Non-Detects	16.07%
Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.019	Minimum Detected	-3.963
Maximum Detected	0.56	Maximum Detected	-0.58
Mean of Detected	0.141	Mean of Detected	-2.448
SD of Detected	0.135	SD of Detected	1.04
Minimum Non-Detect	0.26	Minimum Non-Detect	-1.347
Maximum Non-Detect	0.33	Maximum Non-Detect	-1.109
Note: Data have multiple DLs - Use of KM Method is recommen	ided	Number treated as Non-Detect	52
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	4
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	92.86%
	UCL Statistic	CS	
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Normal Distribution Test with Detected Values Only Lilliefors Test Statistic	0.826	Lognormal Distribution Test with Detected Values Only Lilliefors Test Statistic	0.909
•	0.826 0.946	·	0.909 0.946
Lilliefors Test Statistic		Lilliefors Test Statistic	
Lilliefors Test Statistic 5% Lilliefors Critical Value		Lilliefors Test Statistic 5% Lilliefors Critical Value	
Lilliefors Test Statistic 5% Lilliefors Critical Value		Lilliefors Test Statistic 5% Lilliefors Critical Value	
Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Normal at 5% Significance Level		Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Lognormal at 5% Significance Level	
Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution		Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	
Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution DL/2 Substitution Method	0.946	Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution DL/2 Substitution Method	0.946
Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution DL/2 Substitution Method Mean	0.946	Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution DL/2 Substitution Method Mean	0.946
Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution DL/2 Substitution Method Mean SD	0.946 0.141 0.124	Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution DL/2 Substitution Method Mean SD	-2.37 0.969
Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution DL/2 Substitution Method Mean SD	0.946 0.141 0.124	Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution DL/2 Substitution Method Mean SD	-2.37 0.969
Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL	0.946 0.141 0.124	Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL	-2.37 0.969
Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL Maximum Likelihood Estimate(MLE) Method	0.946 0.141 0.124 0.169	Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL Log ROS Method	-2.37 0.969 0.456
Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL Maximum Likelihood Estimate(MLE) Method Mean	0.946 0.141 0.124 0.169	Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL Log ROS Method Mean in Log Scale	-2.37 0.969 0.456
Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL Maximum Likelihood Estimate(MLE) Method Mean SD	0.946 0.141 0.124 0.169 0.477 0.0826	Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL Log ROS Method Mean in Log Scale SD in Log Scale	-2.37 0.969 0.456 -2.487 0.974
Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL Maximum Likelihood Estimate(MLE) Method Mean SD 95% MLE (t) UCL	0.946 0.141 0.124 0.169 0.477 0.0826 0.496	Lilliefors Test Statistic 5% Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL Log ROS Method Mean in Log Scale SD in Log Scale Mean in Original Scale	-2.37 0.969 0.456 -2.487 0.974 0.13

Table J-5. UCL Statistics for Selected Metals Baker Beach Disturbed Area 2A

KB62800_Table J-5.xls

Gamma Distribution Test with Detected Values Only	Data Distribution Test with Detected Values Only								
k star (bias corrected)	1.1	Data do not follow a Discernable Distribution (0.05)							
Theta Star	0.128								
nu star	103.4								
A-D Test Statistic	1.402	Nonparametric Statistics							
5% A-D Critical Value	0.775	Kaplan-Meier (KM) Method							
K-S Test Statistic	0.775	Mean	0.134						
5% K-S Critical Value	0.132	SD	0.128						
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.018						
		95% KM (t) UCL	0.164						
Assuming Gamma Distribution		95% KM (z) UCL	0.164						
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	0.164						
Minimum	0.019	95% KM (bootstrap t) UCL	0.168						
Maximum	0.56	95% KM (BCA) UCL	0.165						
Mean	0.141	95% KM (Percentile Bootstrap) UCL	0.163						
Median	0.099	95% KM (Chebyshev) UCL	0.212						
SD	0.126	97.5% KM (Chebyshev) UCL	0.246						
k star	1.261	99% KM (Chebyshev) UCL	0.313						
Theta star	0.112								
Nu star	141.2	Potential UCLs to Use							
AppChi2	114.8	95% KM (Chebyshev) UCL	0.212						
95% Gamma Approximate UCL	0.173								
95% Adjusted Gamma UCL	0.174								

Note: DL/2 is not a recommended method.

Checked by: LP Approved by: TG

Table J-6. Metals Data for Serpentinite Dataset Baker Beach Disturbed Areas 1 and 2A

Sample Statio	n Sample ID	Grid ID	Lith type	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium \	Vanadium	Zinc
BB1EX100	BB1EX100[0.0]	F2 (maximatan)		27-Aug-07	1.2000	2.9000	76.0000	0.1900	0.1500	150.0000	14.0000	35.0000	66.0000	0.0610	0.1300	150.0000	0.2600	0.1300	0.4100	47.0000	77.0000
BB1EX101	BB1EX101[0.0]	F3 (perimeter) F3 (bottom)	serpentinite serpentinite	27-Aug-07 27-Aug-07	0.5600	1.8000	64.0000	0.1800 0.1500	0.1300	210.0000	34.0000	12.0000	110.0000	0.0410	0.1300	900.0000	0.2800	0.1300	0.4100	35.0000	97.0000
DDIEXIOI	DUP082707	F3 (bottom)	serpentinite	27-Aug-07 27-Aug-07	0.0490	1.7000	48.0000	0.1500	0.1500	550.0000	44.0000	13.0000	13.0000	0.0410	0.1500	1200.0000	0.3000	0.1500	0.3000	44.0000	83.0000
BB1EX102	BB1EX102[0.0]	E3 (bottom)	serpentinite	27-Aug-07	24.0000	4.3000	150.0000	0.1200	3.3000	520.0000	49.0000	92.0000	880.0000	0.1100	0.0750	1300.0000	0.2700	2.1000	0.2700		2100.0000
BB1EX103	BB1EX103[0.0]	E4 (bottom)	serpentinite	27-Aug-07	0.2950	0.4600	4.1000	0.0600	0.1450	1700.0000	84.0000	12.0000	0.5200	0.0300	0.1450	2000.0000	0.2950	0.1450	0.2950	39.0000	17.0000
BB1EX104	BB1EX104[0.0]	F4 (bottom)	serpentinite	27-Aug-07	0.5000	1.1000	51.0000	0.1050	0.2600	3900.0000	240.0000	53.0000	2.9000	0.0890	0.2600	5100.0000	0.5000	0.2600	0.5000	110.0000	53.0000
BB1EX105	BB1EX105[0.0]	F4 (perimeter)	serpentinite	27-Aug-07	0.2800	0.8900	20.0000	0.0400	0.1400	900.0000	60.0000	5.3000	13.0000	0.0510	0.1400	1500.0000	0.2800	0.1400	0.4400	22.0000	37.0000
BB1EX106	BB1EX106[0.0]	F2 (bottom)	serpentinite	17-Sep-07	0.4250	1.6000	65.0000	0.1500	0.2100	1900.0000	180.0000	29.0000	1.6000	0.0400	0.2100	4500.0000	0.0690	0.2100	0.4250	46.0000	30.0000
BB1EX107	BB1EX107[0.0]	F2 (perimeter)	serpentinite	17-Sep-07	1.4000	5.5000	130.0000	0.2900	0.1400	170.0000	61.0000	10.0000	7.5000	0.0230	0.1400	250.0000	0.2700	0.1400	0.2800	62.0000	28.0000
	DUP091707	F2 (perimeter)	serpentinite	17-Sep-07	1.3000	4.8000	75.0000	0.2900	0.1350	190.0000	29.0000	8.1000	6.9000	0.0110	0.1350	230.0000	0.2400	0.1350	0.2700	58.0000	27.0000
BB1EX108	BB1EX108[0.0]	E5 (bottom)	serpentinite	17-Sep-07	0.8600	3.7000	53.0000	0.3600	0.1400	320.0000	29.0000	25.0000	4.5000	0.0670	0.1400	630.0000	0.0640	0.1400	0.2800	45.0000	46.0000
BB1EX109	BB1EX109[0.0]	F5 (bottom)	serpentinite	17-Sep-07	0.3150	1.7000	18.0000	0.0790	0.1600	890.0000	88.0000	8.9000	1.4000	0.0290	0.1600	2100.0000	0.0630	0.1600	0.3150	33.0000	23.0000
BB1EX110	BB1EX110[0.0]	G5 (bottom)	serpentinite	17-Sep-07	0.3150	2.6000	31.0000	0.1300	0.1600	770.0000	71.0000	11.0000	0.1400	0.0480	0.1600	2100.0000	0.1000	0.1600	0.3150	36.0000	23.0000
BB1EX111	BB1EX111[0.0]	G5 (perimeter)	serpentinite	17-Sep-07	2.8000	3.3000	520.0000	0.6500	0.1450	430.0000	29.0000	41.0000	9.6000	0.1100	0.1450	790.0000	0.0840	0.1450	0.2850	69.0000	70.0000
BB1EX112	BB1EX112[0.0]	G6 (bottom)	serpentinite	17-Sep-07	0.1800	6.3000	80.0000	0.4500	0.1450	360.0000	33.0000	16.0000	3.9000	0.0380	0.1450	550.0000	0.1600	0.1450	0.2900	62.0000	38.0000
BB1EX113	BB1EX113[0.0]	G6 (perimeter)	serpentinite	17-Sep-07	0.3000	3.3000	1000.0000	0.2600	0.1500	580.0000	64.0000	31.0000	3.5000	0.0650	0.1500	1900.0000	0.0620	0.1500	0.3000	39.0000	36.0000
BB1EX114	BB1EX114[0.0]	F6 (bottom)	serpentinite	17-Sep-07	0.2900	0.9600	9.3000	0.0570	0.1450	1000.0000	90.0000	10.0000	1.1000	0.0320	0.1450	2100.0000	0.0330	0.1450	0.2900	33.0000	17.0000
BB1EX115	BB1EX115[0.0]	G4 (perimeter)	serpentinite	17-Sep-07	0.2950	2.7000	51.0000	0.1900	0.1450	710.0000	72.0000	11.0000	4.1000	0.0510	0.1450	1600.0000	0.1200	0.1450	0.2950	49.0000	28.0000
BB1EX116	BB1EX116[0.0]	E6 (bottom)	serpentinite	26-Sep-07	0.0067	0.3000	5.0000	0.1350	0.0094	1100.0000	66.0000	15.0000	0.0400	0.0420	0.0780	1600.0000	0.0720	0.0068	0.0570	23.0000	23.0000
BB1EX122	BB1EX122[0.0]	F7(bottom)	serpentinite	26-Sep-07	0.0480	1.7000	28.0000	0.1100	0.0480	1200.0000	87.0000	20.0000	1.6000	0.0630	0.1600	2400.0000	0.1000	0.0330	0.0220	35.0000	30.0000
BB1EX123	BB1EX123[0.0]	E3(bottom)	serpentinite	27-Sep-07	0.1200	0.5800	12.0000	0.0920	0.1300	210.0000	57.0000	5.2000	3.1000	0.0180	0.2300	1200.0000	0.0740	0.1200	0.1000	23.0000	18.0000
BB1EX124	BB1EX124[0.0]	F7 (perimeter)	serpentinite	27-Sep-07	0.0180	0.8700	5.3000	0.0200	0.0300	760.0000	62.0000	17.0000	0.2200	0.0670	0.1450	1600.0000	0.1300	0.0200	0.1450	29.0000	18.0000
BB1EX124	DUP092707	F7 (perimeter)	serpentinite	27-Sep-07	0.0160	0.4400	4.0000	0.1500	0.0260	350.0000	62.0000	11.0000	0.2100	0.0350	0.1500	1400.0000	0.0720	0.0190	0.0240	23.0000	19.0000
BB1EX150	BB1EX150[0.0]	A6 (Perimeter)	serpentinite	08-Nov-07	0.0110	0.6800	19.0000	0.1600	0.0570	1300.0000	140.0000	27.0000	0.0700	0.0180	0.1600	2900.0000	0.0130	0.1600	0.0032	36.0000	22.0000
BB1EX151	BB1EX151[0.0]	A6 (Bottom)	serpentinite	08-Nov-07	0.0260	0.7300	27.0000	0.0370	0.0540	1300.0000	120.0000	22.0000	0.2000	0.0140	0.1650	2900.0000	0.0350	0.1650	0.1650	33.0000	24.0000
BB1EX152	BB1EX152[0.0]	B6 (Bottom)	serpentinite	08-Nov-07	0.1450	0.2800	7.8000	0.1450	0.0160	1200.0000	74.0000	12.0000 16.0000	0.0560	0.0180	0.1450	1800.0000	0.0089	0.1450	0.1450	28.0000	12.0000
BB1EX153 BB1EX154	BB1EX153[0.0] BB1EX154[0.0]	A5 (Perimeter) A5 (Bottom)	serpentinite serpentinite	08-Nov-07 08-Nov-07	0.0170 0.0940	0.9600 2.2000	15.0000 43.0000	0.0340 0.1900	0.0210 0.0370	810.0000 1600.0000	89.0000 130.0000	25.0000	0.3000 1.8000	0.0200 0.1600	0.1650 0.2650	2500.0000 3100.0000	0.0250 0.0720	0.1650 0.0850	0.1650 0.0200	28.0000 46.0000	23.0000 43.0000
BB1EX155	BB1EX155[0.0]	D4 (Bottom)	serpentinite	15-Nov-07	0.0940	0.3900	1.7000	0.1300	0.0370	1300.0000	83.0000	14.0000	0.6900	0.1000	0.3300	1700.0000	0.0720	0.0830	0.0200	31.0000	23.0000
BB1EX156	BB1EX156[0.0]	D5(Bottom)	serpentinite	15-Nov-07	0.1300	3.0000	33.0000	0.2000	0.0700	32.0000	17.0000	84.0000	32.0000	0.0210	0.0560	38.0000	0.0240	0.0280	0.0210	30.0000	37.0000
BB1EX157	BB1EX157[0.0]	C3 (Bottom)	serpentinite	15-Nov-07	0.0200	0.4800	0.6200	0.1450	0.0087	1000.0000	73.0000	4.0000	0.1800	0.0115	0.0560	1900.0000	0.0200	0.0047	0.0036	11.0000	16.0000
BB1EX158	BB1EX158[0.0]	C4 (Bottom)	serpentinite	15-Nov-07	0.0061	0.0480	0.2500	0.1400	0.1400	110.0000	26.0000	1.6000	0.0380	0.0115	0.0190	630.0000	0.1500	0.0055	0.1400	5.3000	11.0000
BB1EX159	BB1EX159[0.0]	C-5 (Bottom)	serpentinite	15-Nov-07	0.0150	0.5900	58.0000	0.1300	0.0230	430.0000	37.0000	11.0000	1.9000	0.2100	0.0250	730.0000	0.0360	0.0140	0.0320	27.0000	24.0000
BB1EX161	BB1EX161[0.0]	B-5 (Bottom)	serpentinite	20-Nov-07	0.0610	0.6300	28.0000	0.0360	0.0630	780.0000	61.0000	10.0000	0.6400	0.0125	0.0650	2000.0000	0.0810	0.0270	0.0580	23.0000	15.0000
- 1	DUP112007-1	B-5 (Bottom)	serpentinite	20-Nov-07	0.0250	0.3900	8.2000	0.0130	0.0160	610.0000	64.0000	11.0000	0.0510	0.0120	0.0320	1400.0000	0.0220	0.0100	0.0150	25.0000	12.0000
BB1EX162	BB1EX162[0.0]	B-4 (Bottom)	serpentinite	20-Nov-07	0.0310	0.8100	8.2000	0.0140	0.0280	800.0000	93.0000	4.8000	1.8000	0.0058	0.0320	2200.0000	0.0550	0.0097	0.0089	13.0000	31.0000
BB1EX163	BB1EX163[0.0]	A-4 (Perimeter)	serpentinite	20-Nov-07	0.0190	0.8200	19.0000	0.1800	0.0290	1600.0000	130.0000	27.0000	0.1100	0.0074	0.0430	3300.0000	0.0160	0.0057	0.0055	46.0000	22.0000
	DUP112007-2	A-4 (Perimeter)	serpentinite	20-Nov-07	0.0096	0.6900	14.0000	0.1550	0.0220	1100.0000	87.0000	17.0000	0.0650	0.0135	0.0350	2200.0000	0.1550	0.1550	0.1550	32.0000	16.0000
BB1EX164	BB1EX164[0.0]	B-3 (Bottom)	serpentinite	20-Nov-07	0.0084	0.1100	1.7000	0.1400	0.0087	580.0000	66.0000	4.3000	0.0340	0.0110	0.0230	1300.0000	0.0093	0.1400	0.0033	13.0000	14.0000
BB1EX165	BB1EX165[0.0]	B-3 (Perimeter)	serpentinite	20-Nov-07	0.0290	1.2000	12.0000	0.0200	0.0200	970.0000	77.0000	8.9000	0.5300	0.0110	0.0420	1700.0000	0.0350	0.0390	0.1350	27.0000	21.0000
BB1EX166	BB1EX166[0.0]	D-2 (Sidewall-sout	tł serpentinite	20-Nov-07	0.0250	0.9600	21.0000	0.0300	0.0160	640.0000	110.0000	11.0000	0.4800	0.0083	0.0460	2600.0000	0.0100	0.0083	0.1900	27.0000	24.0000
BB1EX167	BB1EX167[0.0]	D-2 (Bottom-east)	serpentinite	20-Nov-07	0.7900	1.0000	12.0000	0.0250	0.0290	920.0000	140.0000	11.0000	8.4000	0.0250	0.5500	3300.0000	0.0500	0.0330	0.2100	24.0000	27.0000
BB1EX168	BB1EX168[0.0]	D-2 (Bottom-west)) serpentinite	20-Nov-07	0.0360	0.8800	130.0000	0.0280	0.0560	480.0000	85.0000	7.8000	0.3400	0.0470	0.1400	1800.0000	0.0260	0.1400	0.0190	20.0000	20.0000
BB1EX169	BB1EX169[0.0]	E-2 (Sidewall-nort	-	20-Nov-07	0.0250	1.1000	24.0000	0.0410	0.0170	820.0000	81.0000	14.0000	0.4800	0.0125	0.0540	2000.0000	0.0170	0.0120	0.1550	33.0000	25.0000
BB1EX170	BB1EX170[0.0]	D-1 (Sidewall-east	t) serpentinite	20-Nov-07	0.1300	4.4000	94.0000	0.3000	0.1200	1200.0000	130.0000	24.0000	3.3000	0.0190	0.3000	3300.0000	0.0700	0.1100	0.0790	54.0000	62.0000
BB2AEX100	BB2AEX100[4.0]	South test pit	serpentinite	18-Sep-07	1.7000	4.5000	88.0000	0.3100	0.1450	63.0000	11.0000	9.2000	3.6000	0.0360	0.1400	77.0000	0.2600	0.1450	0.2950	48.0000	26.0000
BB2AEX101	BB2AEX101[3.0]	Middle test pit	serpentinite	18-Sep-07	1.6000	5.0000	79.0000	0.3100	0.1450	55.0000	8.5000	9.7000	3.7000	0.0310	0.1450	51.0000	0.1400	0.1450	0.2900	47.0000	28.0000
BB2AEX102	BB2AEX102[3.5]	North test pit	serpentinite	18-Sep-07	1.7000	5.1000	91.0000	0.3600	0.1550	74.0000	9.5000	9.7000	4.0000	0.0270	0.1600	70.0000	0.2500	0.1550	0.3100	49.0000	31.0000

Table J-6. Metals Data for Serpentinite Dataset Baker Beach Disturbed Areas 1 and 2A

December 2008

KB62800_Tables J-6 and J-7.xls

Zinc	Vanadium	Thallium	Silver	Selenium	Nickel	Molybdenum	Mercury	Lead	Copper	Cobalt	Chromium	Cadmium	Beryllium	Barium	Arsenic	Antimony	Date	Lith type	Grid ID	n Sample ID	Sample Statio
15,0000	17.0000	0.0200	0.1400	0.0240	1700 0000	0.1200	0.0061	0.0570	2 0000	67.0000	1100 0000	0.0260	0.0200	1.0000	0.4000	0.0240	15.0 + 07.		E2 (D :)	DD2 4 E3/102/0 01	DD2 4 EW102
15.0000	17.0000	0.0200	0.1400	0.0240	1700.0000		0.0061	0.0570	3.0000	67.0000	1100.0000	0.0260		1.8000	0.4000	0.0240	15-Oct-07	serpentinite	,	BB2AEX103[0.0]	
17.0000	10.0000	0.0085	0.1400	0.5100	1900.0000		0.0190	0.1200	4.0000	73.0000	1200.0000	0.0140		1.3000	0.0890	0.0086	15-Oct-07	serpentinite	` /	BB2AEX104[0.0]	
19.0000	19.0000	0.0041	0.1350	0.0190	1100.0000		0.0110	0.0360	4.8000	43.0000	810.0000	0.0160		0.2100	0.1500	0.0093	15-Oct-07	serpentinite	` /	BB2AEX105[0.0]	
13.0000	14.0000	0.0210	0.1400	0.0980	1600.0000		0.0920	0.0370	5.0000	63.0000	800.0000	0.0180		0.8100	0.0850	0.0120	15-Oct-07	serpentinite		BB2AEX106[0.0]	
17.0000	21.0000	0.0340	0.1350	0.0410	2200.0000		0.0110	0.3800	7.6000	80.0000	1800.0000	0.0350		0.8000	0.1200	0.0220	15-Oct-07	serpentinite	,	BB2AEX107[0.0]	
12.0000	20.0000	0.0030	0.1350	0.0260	1400.0000		0.0105	0.1350	8.7000	62.0000	1200.0000	0.0140		0.5400	0.0400	0.1350	15-Oct-07	serpentinite	D3 (Bottom)		BB2AEX107
15.0000	26.0000	0.0073	0.1350	0.0420	1200.0000		0.0130	0.0380	10.0000	39.0000	820.0000	0.1350		0.5500	0.0960	0.0100	15-Oct-07	serpentinite	D4 (Bottom)	BB2AEX109[0.0]	BB2AEX109
15.0000	8.4000	0.1400	0.1400	0.0360	2400.0000		0.0056	0.1400	5.3000	75.0000	1100.0000	0.1400		0.2100	0.0950	0.1400	15-Oct-07	serpentinite	C4 (Bottom)		BB2AEX110
16.0000	15.0000	0.0029	0.1450	0.0380	2100.0000		0.0089	0.1450	6.6000	82.0000	830.0000	0.0160		1.0000	0.0530	0.1450	15-Oct-07	serpentinite	` ,	BB2AEX111[0.0]	BB2AEX111
19.0000	12.0000	0.1400	0.1400	0.0230	1400.0000		0.0310	0.4800	4.9000	50.0000	690.0000	0.1400	0.1400	2.7000	0.6200	0.0200	15-Oct-07	serpentinite	C3 (Perimeter)	BB2AEX112[0.0]	BB2AEX112
17.0000	16.0000	0.0052	0.1550	0.0860	1700.0000	0.1000	0.0430	0.0820	6.4000	68.0000	1000.0000	0.1550	0.1550	6.7000	0.2300	0.0130	15-Oct-07	serpentinite	B3 (Perimeter)	BB2AEX113[0.0]	BB2AEX113
17.0000	31.0000	0.0062	0.1350	0.0890	2500.0000	0.1200	0.0170	0.0400	25.0000	89.0000	1400.0000	0.0140	0.1350	0.7700	0.1100	0.0085	15-Oct-07	serpentinite	B3 (Bottom)	BB2AEX114[0.0]	BB2AEX114
21.0000	14.0000	0.0056	0.1450	0.1450	1700.0000	0.0920	0.0870	0.1450	2.1000	76.0000	1700.0000	0.1450	0.1450	0.2100	0.0380	0.1450	15-Oct-07	serpentinite	B4 (Bottom)	BB2AEX115[0.0]	BB2AEX115
18.0000	8.0000	0.1450	0.1450	0.0280	1300.0000	0.0730	0.0100	0.0340	2.2000	50.0000	1100.0000	0.1450	0.1450	0.3100	0.1450	0.1450	22-Oct-07	serpentinite	5A (Perimeter)	BB2AEX116[0.0]	BB2AEX116
14.0000	16.0000	0.0081	0.0280	0.0240	1300.0000	0.1600	0.0440	2.3000	8.0000	54.0000	650.0000	0.0310	0.1350	5.5000	0.1500	0.0390	22-Oct-07	serpentinite	5B (Bottom)	BB2AEX117[0.0]	BB2AEX117
11.0000	24.0000	0.0160	0.0130	0.0210	1100.0000	0.0650	0.0105	0.0940	11.0000	43.0000	650.0000	0.0160	0.1300	2.1000	0.0570	0.0250	22-Oct-07	serpentinite	5C (Bottom)	BB2AEX118[0.0]	BB2AEX118
14.0000	26.0000	0.0073	0.0130	0.0230	2200.0000	0.0840	0.0170	0.0290	16.0000	64.0000	1100.0000	0.0130	0.1350	4.1000	0.1350	0.1350	22-Oct-07	serpentinite	5C (Bottom)	DUP102207	BB2AEX118
11.0000	23.0000	0.1300	0.1300	0.0140	1400.0000	0.2000	0.0110	0.4100	15.0000	46.0000	850.0000	0.1300	0.1300	1.2000	0.1600	0.0150	22-Oct-07	serpentinite	5D (Bottom)	BB2AEX119[0.0]	BB2AEX119
18.0000	13.0000	0.1450	0.1450	0.0390	1600.0000	0.1400	0.0068	0.1450	4.2000	63.0000	1100.0000	0.1450	0.1450	0.6600	0.1450	0.1450	22-Oct-07	serpentinite	6A (Perimeter)	BB2AEX120[0.0]	BB2AEX120
12.0000	12.0000	0.1350	0.1350	0.0190	1000.0000	0.0920	0.0140	0.0500	6.0000	36.0000	530.0000	0.1350	0.1350	1.0000	0.0570	0.0069	22-Oct-07	serpentinite	6A (Bottom)	BB2AEX121[0.0]	BB2AEX121
9.0000	6.1000	0.1350	0.0150	0.0120	130.0000	0.0540	0.0390	0.3100	0.5100	14.0000	76.0000	0.0120	0.1350	1.2000	0.1350	0.0066	22-Oct-07	serpentinite	6B (Bottom)	BB2AEX122[0.0]	BB2AEX122
23.0000	27.0000	0.0300	0.0290	0.0360	1700.0000	0.1700	0.0310	1.1000	22.0000	81.0000	1300.0000	0.0470	0.0200	17.0000	0.0730	0.0510	23-Oct-07	serpentinite	5E (Perimeter)	BB2AEX123[0.0]	BB2AEX123
13.0000	20.0000	0.0160	0.0450	0.0480	1000.0000	0.0930	0.0099	0.7300	7.7000	43.0000	560.0000	0.0110	0.1300	3.8000	0.1400	0.0110	23-Oct-07	serpentinite	5E (Perimeter)	DUP102307	BB2AEX123
11.0000	25.0000	0.0120	0.0150	0.0240	900.0000	0.0380	0.0066	0.1700	7.4000	50.0000	630.0000	0.0210	0.1300	1.1000	0.1300	0.0160	23-Oct-07	serpentinite	6C (Bottom)	BB2AEX124[0.0]	BB2AEX124
14.0000	15.0000	0.0075	0.0056	0.0310	1600.0000	0.0450	0.0105	0.0880	3.6000	69.0000	1400.0000	0.0120	0.1350	0.9500	0.1200	0.0220	23-Oct-07	serpentinite	6D (Bottom)	BB2AEX125[0.0]	BB2AEX125
22.0000	6.2000	0.0120	0.1450	0.0250	1500.0000	0.1450	0.0220	0.3300	0.9100	68.0000	1200.0000	0.0093	0.1450	0.5400	0.0440	0.0049	24-Oct-07	serpentinite	7A (Perimeter)	BB2AEX131[0.0]	BB2AEX131
22.0000	9.9000	0.0066	0.1500	0.0320	2200.0000	0.1500	0.0220	0.4500	3.0000	89.0000	690.0000	0.0190	0.1500	4.3000	0.0670	0.0073	24-Oct-07	serpentinite	` ,	BB2AEX132[0.0]	BB2AEX132
	31.0000 14.0000 8.0000 24.0000 26.0000 13.0000 12.0000 6.1000 27.0000 25.0000 15.0000 6.2000	0.0062 0.0056 0.1450 0.0081 0.0160 0.0073 0.1300 0.1450 0.1350 0.0300 0.0160 0.0120 0.0075 0.0120	0.1350 0.1450 0.1450 0.0280 0.0130 0.1300 0.1450 0.1350 0.0150 0.0290 0.0450 0.0056 0.1450	0.0890 0.1450 0.0280 0.0240 0.0210 0.0230 0.0140 0.0390 0.0190 0.0120 0.0360 0.0480 0.0240 0.0310 0.0250	2500.0000 1700.0000 1300.0000 1300.0000 1100.0000 2200.0000 1400.0000 1000.0000 1700.0000 1000.0000 900.0000 1500.0000	0 0.1200 0 0.0920 0 0.0730 0 0.1600 5 0.0650 0 0.0840 0 0.2000 8 0.1400 0 0.0920 0 0.0540 0 0.1700 0 0.0930 6 0.0380 5 0.0450 0 0.1450	0.0170 0.0870 0.0100 0.0440 0.0105 0.0170 0.0110 0.0068 0.0140 0.0390 0.0310 0.0099 0.0066 0.0105	0.0400 0.1450 0.0340 2.3000 0.0940 0.4100 0.1450 0.0500 0.3100 1.1000 0.7300 0.1700 0.0880 0.3300	25.0000 2.1000 2.2000 8.0000 11.0000 15.0000 4.2000 6.0000 0.5100 22.0000 7.7000 7.4000 3.6000 0.9100	89.0000 76.0000 50.0000 54.0000 43.0000 64.0000 63.0000 14.0000 81.0000 43.0000 50.0000 69.0000 68.0000	1400.0000 1700.0000 1100.0000 650.0000 650.0000 1100.0000 850.0000 1100.0000 530.0000 76.0000 1300.0000 630.0000 1400.0000 1200.0000	0.0140 0.1450 0.1450 0.0310 0.0160 0.0130 0.1300 0.1450 0.0120 0.0470 0.0110 0.0210 0.0093	0.1350 0.1450 0.1450 0.1350 0.1350 0.1300 0.1350 0.1450	0.7700 0.2100 0.3100 5.5000 2.1000 4.1000 0.6600 1.0000 1.2000 3.8000 1.1000 0.9500 0.5400	0.1100 0.0380 0.1450 0.1500 0.0570 0.1350 0.1600 0.1450 0.0570 0.1350 0.0730 0.1400 0.1300 0.1200	0.0085 0.1450 0.1450 0.0390 0.0250 0.1350 0.0150 0.0450 0.0069 0.0066 0.0510 0.0110 0.0160 0.0220 0.0049	15-Oct-07 15-Oct-07 22-Oct-07 22-Oct-07 22-Oct-07 22-Oct-07 22-Oct-07 22-Oct-07 22-Oct-07 23-Oct-07 23-Oct-07 23-Oct-07 23-Oct-07 23-Oct-07	serpentinite serpentinite serpentinite serpentinite serpentinite serpentinite serpentinite serpentinite serpentinite serpentinite serpentinite serpentinite serpentinite serpentinite serpentinite serpentinite	B3 (Bottom) B4 (Bottom) 5A (Perimeter) 5B (Bottom) 5C (Bottom) 5C (Bottom) 5D (Bottom) 6A (Perimeter) 6A (Bottom) 6B (Bottom) 5E (Perimeter) 5E (Perimeter) 6C (Bottom) 6D (Bottom) 7A (Perimeter)	BB2AEX114[0.0] BB2AEX115[0.0] BB2AEX116[0.0] BB2AEX117[0.0] BB2AEX118[0.0] DUP102207 BB2AEX119[0.0] BB2AEX120[0.0] BB2AEX122[0.0] BB2AEX123[0.0] DUP102307 BB2AEX124[0.0] BB2AEX125[0.0] BB2AEX125[0.0] BB2AEX125[0.0] BB2AEX125[0.0] BB2AEX125[0.0]	BB2AEX114 BB2AEX115 BB2AEX116 BB2AEX117 BB2AEX118 BB2AEX119 BB2AEX120 BB2AEX121 BB2AEX122 BB2AEX123 BB2AEX123 BB2AEX124 BB2AEX125 BB2AEX131

Prepared by: MJH Checked by: LP Approved by: TG

Table J-7. Metals Data for Melange Dataset Baker Beach Disturbed Areas 1 and 2A

(B62800_Tables J-6 and J-7.xls	

Station ID	Sample ID	Grid ID	Lith Type	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium V	Vanadium	Zinc
BB1EX117	BB1EX117[0.0]	F7(bottom)	Melange	26-Sep-07	0.2000	9.0000	130.0000	0.8300	0.2200	640.0000	40.0000	47.0000	5.7000	0.0880	0.1900	890.0000	0.1500	0.0680	0.0630	74.0000	76.0000
BB1EX118	BB1EX118[0.0]	E8(bottom)	Melange	26-Sep-07	0.2000	7.2000	16.0000	0.7400	0.0750	400.0000	28.0000	43.0000	6.7000	0.0950	0.5600	490.0000	0.2600	0.0910	0.0610	72.0000	80.0000
BB1EX119	BB1EX119[0.0]	` ′	Melange	26-Sep-07	0.2000	7.0000	150.0000	0.5700	0.0850	440.0000	31.0000	40.0000	6.6000	0.0620	0.6200	640.0000	0.3600	0.0980	0.0480	66.0000	74.0000
BB1EX120	BB1EX120[0.0]	,	Melange	26-Sep-07	0.3100	9.9000	260.0000	0.6900	0.0890	370.0000	28.0000	50.0000	8.1000	0.0580	0.7000	520.0000	0.3500	0.1000	0.0630	74.0000	86.0000
BB1EX121	BB1EX121[0.0]	4 ,	Melange	26-Sep-07	0.1400	5.2000	180.0000	0.4300	0.1000	210.0000	31.0000	40.0000	5.3000	0.0730	0.5300	360.0000	0.1600	0.0860	0.0720	82.0000	69.0000
BB1EX125	BB1EX125[0.0]	4	Melange	27-Sep-07	0.4900	18.0000	32.0000	0.5200	0.1300	57.0000	13.0000	58.0000	13.0000	0.0910	0.7300	78.0000	0.3200	0.1400	0.0800	47.0000	93.0000
BB1EX126	BB1EX126[0.0]	*	Melange	02-Nov-07	0.0840	6.4000	55.0000	0.3300	0.0930	480.0000	46.0000	33.0000	17.0000	0.0500	0.4000	900.0000	0.1600	0.0710	0.0570	43.0000	71.0000
BB1EX127	BB1EX127[0.0]	D10 (Perimeter-west)	Melange	02-Nov-07	0.0660	4.8000	30.0000	0.4000	0.0530	290.0000	29.0000	26.0000	4.0000	0.0470	0.5600	460.0000	0.1800	0.0890	0.0890	56.0000	57.0000
BB1EX128	BB1EX128[0.0]	D8 (Bottom)	Melange	02-Nov-07	0.1000	6.7000	58.0000	0.7900	0.0930	450.0000	39.0000	44.0000	5.8000	0.0850	0.6000	580.0000	0.2100	0.0940	0.0800	89.0000	79.0000
BB1EX129	BB1EX129[0.0]	D7 (Bottom)	Melange	02-Nov-07	0.1300	6.3000	59.0000	0.2600	0.0930	160.0000	19.0000	36.0000	17.0000	0.0820	0.3000	210.0000	0.1600	0.1100	0.0470	33.0000	67.0000
BB1EX130	BB1EX130[0.0]	D10 (Perimeter -south)	Melange	02-Nov-07	0.1600	10.0000	44.0000	0.4800	0.0900	32.0000	14.0000	64.0000	10.0000	0.0780	0.3900	55.0000	0.2500	0.0840	0.0680	38.0000	86.0000
BB1EX130	DUP110207	D10 (Perimeter -south)	Melange	02-Nov-07	0.2400	12.0000	40.0000	0.4300	0.0710	35.0000	14.0000	49.0000	12.0000	0.0820	0.6200	54.0000	0.2700	0.1000	0.0550	34.0000	77.0000
BB1EX131	BB1EX131[0.0]	C9 (Bottom)	Melange	02-Nov-07	0.0073	0.4600	2.8000	0.1450	0.0084	770.0000	79.0000	6.3000	0.0400	0.0052	0.0270	1800.0000	0.0330	0.1450	0.1450	13.0000	16.0000
BB1EX132	BB1EX132[0.0]	C9 (Perimeter -west)	Melange	02-Nov-07	0.0160	0.5400	3.7000	0.1450	0.0210	650.0000	71.0000	10.0000	0.8000	0.0110	0.0290	1700.0000	0.0330	0.0095	0.1450	19.0000	19.0000
BB1EX133	BB1EX133[0.0]	C8 (Bottom)	Melange	02-Nov-07	0.0078	0.7100	2.3000	0.1450	0.0085	560.0000	120.0000	5.8000	0.0250	0.0160	0.0600	4100.0000	0.0140	0.1450	0.1450	6.5000	24.0000
BB1EX134	BB1EX134[0.0]	B9 (Bottom)	Melange	02-Nov-07	0.0082	0.3800	7.5000	0.1450	0.0220	540.0000	73.0000	3.5000	0.0220	0.0120	0.0160	1400.0000	0.0120	0.1450	0.1450	16.0000	15.0000
BB1EX135	BB1EX135[0.0]	B9 (Perimeter-west)	Melange	02-Nov-07	0.0210	0.1700	1.3000	0.1500	0.0180	700.0000	72.0000	7.8000	0.0210	0.0140	0.0320	1800.0000	0.0240	0.1500	0.1500	14.0000	20.0000
BB1EX136	BB1EX136[0.0]	A9 (Bottom)	Melange	02-Nov-07	0.0042	0.2400	1.0000	0.1650	0.1650	920.0000	69.0000	4.4000	0.0170	0.0130	0.0340	1600.0000	0.0140	0.1650	0.1650	10.0000	18.0000
BB1EX137	BB1EX137[0.0]	A9 (Perimeter -west)	Melange	02-Nov-07	0.0490	0.0790	0.6700	0.1500	0.1500	790.0000	69.0000	2.6000	0.0180	0.0190	0.0280	1600.0000	0.1200	0.1500	0.1500	8.3000	16.0000
BB1EX138	BB1EX138[0.0]	F8 (Perimeter - resample)	Melange	03-Nov-07	0.3200	17.0000	97.0000	0.4500	0.0770	59.0000	22.0000	47.0000	19.0000	0.0590	0.3200	89.0000	0.0950	0.0940	0.1200	47.0000	79.0000
BB1EX139	BB1EX139[0.0]	E8 (Bottom - resample)	Melange	03-Nov-07	0.4700	18.0000	76.0000	0.5600	0.2000	48.0000	20.0000	73.0000	14.0000	0.0470	0.6600	86.0000	0.4200	0.1700	0.1900	47.0000	85.0000
BB1EX140	BB1EX140[0.0]	E9 (Bottom - resample)	Melange	03-Nov-07	0.1700	7.0000	69.0000	0.5900	0.1300	1000.0000	57.0000	45.0000	7.6000	0.0830	1.6000	1000.0000	0.3700	0.1100	0.2000	81.0000	76.0000
BB1EX141	BB1EX141[0.0]	A9 (Perimeter -south)	Melange	05-Nov-07	0.1400	5.5000	76.0000	0.2400	0.1100	430.0000	34.0000	35.0000	20.0000	0.0700	0.4000	600.0000	0.1400	0.0880	0.0370	36.0000	62.0000
BB1EX142	BB1EX142[0.0]	A8 (Perimeter -south)	Melange	05-Nov-07	0.0150	0.5900	7.4000	0.0260	0.0210	800.0000	73.0000	10.0000	0.4100	0.0190	0.0500	1700.0000	0.0490	0.0059	0.1350	21.0000	19.0000
BB1EX143	BB1EX143[0.0]	A8 (Bottom)	Melange	05-Nov-07	0.0630	1.7000	42.0000	0.1100	0.0480	750.0000	110.0000	13.0000	1.4000	0.0420	0.1200	2600.0000	0.1500	0.0230	0.0130	31.0000	32.0000
BB1EX144	BB1EX144[0.0]	B8 (Bottom)	Melange	05-Nov-07	0.0200	0.7100	6.4000	0.1450	0.0210	1200.0000	85.0000	5.1000	0.0780	0.0060	0.1400	1800.0000	0.0150	0.0150	0.0093	15.0000	24.0000
BB1EX145	BB1EX145[0.0]	` ′	Melange	08-Nov-07	0.1200	3.2000	65.0000		0.0620	69.0000	16.0000	37.0000	10.0000	0.0670	0.1300	88.0000	0.1500	0.0600	0.0800	31.0000	63.0000
BB1EX146	BB1EX146[0.0]	` '	Melange	08-Nov-07	0.0850	1.9000	67.0000	0.4100	0.0510	65.0000	12.0000	39.0000	8.9000	0.0590	0.1300	78.0000	0.0830	0.0460	0.0750	27.0000	68.0000
BB1EX147	BB1EX147[0.0]	, ,	Melange	08-Nov-07	0.3900	14.0000	38.0000	0.5700	0.1000	42.0000	22.0000	62.0000	14.0000	0.0400	0.5400	64.0000	0.1500	0.0970	0.1300	41.0000	94.0000
BB1EX148	BB1EX148[0.0]		Melange	08-Nov-07	0.3900	17.0000	76.0000	0.5000	0.0760	50.0000	14.0000	59.0000	14.0000	0.0860	0.7000	57.0000	0.2700	0.0960	0.0920	48.0000	83.0000
	DUP110807	C7 (Bottom)	Melange	08-Nov-07	0.3100	14.0000	54.0000	0.4200	0.0810	39.0000	12.0000	41.0000	12.0000	0.1000	0.4800	46.0000	0.2000	0.0800	0.0970	42.0000	71.0000
BB1EX149	BB1EX149[0.0]	, ,	Melange	08-Nov-07	0.3000	8.9000	63.0000	0.3900	0.0860	66.0000	13.0000	42.0000	9.1000	0.0430	0.3700	49.0000	0.3600	0.0830	0.0510	75.0000	76.0000
BB1EX160	BB1EX160[0.0]	, ,	Melange	20-Nov-07	0.0051	0.0740	17.0000	0.1350	0.0055	1000.0000	58.0000	7.6000	0.0450	0.0720	0.0330	1500.0000	0.0550	0.0053	0.0870	18.0000	16.0000
BB2AEX126	BB2AEX126[0.0]	• •	Melange	23-Oct-07	0.1300	15.0000	7.1000		0.0210	730.0000	72.0000	6.3000	0.0990	0.0120		1600.0000	0.0680	0.0094	0.0220	48.0000	15.0000
BB2AEX127	BB2AEX127[0.0]	• • •	Melange	24-Oct-07	0.2900	12.0000	9.3000		0.0530	800.0000	76.0000	20.0000	0.7800	0.0440	0.2600	1800.0000	0.1500	0.0160	0.0590	44.0000	20.0000
BB2AEX128	BB2AEX128[0.0		Melange	24-Oct-07	0.2100	7.1000	220.0000	0.6100	0.1300	270.0000	26.0000	47.0000	7.4000	0.0800	0.9900	420.0000	0.2300	0.1600	0.1600	63.0000	81.0000
BB2AEX129 BB2AEX130	BB2AEX129[0.0]		Melange	24-Oct-07	0.0380	0.4200 0.7900	9.9000 8.3000		0.0380 0.0340	840.0000 1200.0000	67.0000 91.0000	7.8000	1.2000 0.5200	0.0058 0.0170		1600.0000	0.0560 0.2300	0.0370 0.0150	0.0430 0.0320	20.0000 29.0000	19.0000 25.0000
BB2AEX133	BB2AEX130[0.0]		Melange	24-Oct-07	0.0250	0.7900				1700.0000	75.0000	9.1000 7.7000		0.0170	0.1550	1800.0000	0.2300	0.0130	0.0320		
BB2AEX133 BB2AEX134	BB2AEX133[0.0] BB2AEX134[0.0]		Melange Melange	24-Oct-07 24-Oct-07	0.0190 0.0180	0.2400	6.2000 39.0000		0.0160 0.0200	1000.0000	83.0000	6.5000	0.5500 0.5000	0.0130		2100.0000 1800.0000	0.0270	0.1350	0.0068	21.0000 19.0000	21.0000 20.0000
BB2AEX135	BB2AEX135[0.0	• • •	Melange	24-Oct-07	0.2500	11.0000	55.0000	0.4400	0.0200	220.0000	26.0000	52.0000	9.9000	0.0130	0.4600	350.0000	0.0320	0.0071	0.1000	56.0000	84.0000
BB2AEX136	BB2AEX136[0.0		Melange	26-Oct-07	0.2300	6.6000	130.0000	0.4400	0.1000	230.0000	23.0000	38.0000	8.7000	0.0380	0.2600	320.0000	0.2000	0.1100	0.0330	48.0000	67.0000
BB2AEX136	DUP102607	8E (Perimeter)	Melange	26-Oct-07	0.1000	4.0000	22.0000		0.0720	290.0000	21.0000	30.0000	4.0000	0.0760	0.1700	400.0000	0.2900	0.1600	0.0290	54.0000	59.0000
BB2AEX137	BB2AEX137[0.0	, ,	Melange	26-Oct-07	0.2300	9.1000	40.0000		0.0720	220.0000	21.0000	44.0000	9.5000	0.0710	0.4900	310.0000	0.3600	0.0950	0.0230	54.0000	75.0000
BB2AEX137 BB2AEX138	BB2AEX137[0.0] BB2AEX138[0.0]		Melange	26-Oct-07	0.2500	6.2000	180.0000		0.0660	230.0000	22.0000	43.0000	9.2000	0.0600	0.3200	350.0000	0.2600	0.0790	0.0550	56.0000	66.0000
BB2AEX139	BB2AEX139[0.0		Melange	26-Oct-07	0.0140	0.2100	5.2000		0.0270	870.0000	63.0000	7.4000	0.1400			1600.0000	0.2660	0.0099	0.0051	19.0000	19.0000
BB2AEX140	BB2AEX140[0.0	, ,	Melange	26-Oct-07	0.0140	3.6000	120.0000	0.3900	0.1300	25.0000	11.0000	26.0000	8.6000	0.0200	0.1200	32.0000	0.1400	0.1000	0.0460	30.0000	72.0000
BB2AEX141	BB2AEX141[0.0		Melange	26-Oct-07	0.1600	7.4000	150.0000	0.4000	0.1000	180.0000	22.0000	35.0000	7.8000	0.1300	0.2700	300.0000	0.1400	0.1000	0.0450	51.0000	69.0000
BB2AEX142	BB2AEX142[0.0	• •	Melange	26-Oct-07	0.3000	13.0000	140.0000		0.0700	60.0000	19.0000	36.0000	11.0000	0.0740	1.3000	130.0000	0.2300	0.1100	0.0430	41.0000	62.0000
BB2AEX143	BB2AEX143[0.0		Melange	26-Oct-07	0.1600	5.8000	240.0000	0.5000	0.0690	380.0000	27.0000	39.0000	6.5000	0.0590	0.2200	520.0000	0.5600	0.0740	0.0780	61.0000	64.0000
BB2AEX144	BB2AEX144[0.0		Melange	26-Oct-07	0.1300	7.7000	81.0000		0.0700	340.0000	25.0000	33.0000	4.8000	0.0500	0.5900	530.0000	0.2700	0.0660	0.0510	58.0000	69.0000
BB2AEX145	BB2AEX145[0.0	• • •	Melange	26-Oct-07	0.2200	8.8000	56.0000		0.1000	62.0000	20.0000	36.0000	10.0000		0.3900	78.0000	0.2800	0.0890	0.0620	34.0000	74.0000
		(2.0000	2 3.0000	5200	2.2000	22.0000		22.0000		=.o.20	0.0,00	. 2.0000	-	2.3070	2.5020	2	500

Prepared by: MJH Checked by: LP Approved by: TG

ATTACHMENT 1

Appendix J

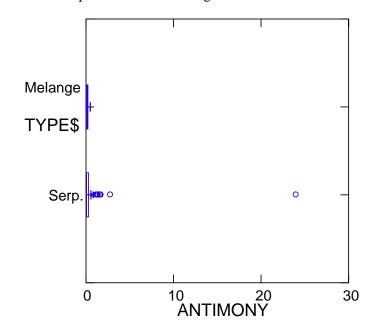
ATTACHMENT 1

Kruskal-Wallis One-way Analysis of Variance for 127 Cases

The categorical values encountered during processing are

Variables Levels

TYPE\$ (2 levels) | Serp. Franciscan melange



Dependent variable | ANTIMONY

Grouping variable | TYPE\$

Group Count Rank Sum

0 75

Serp. 75 4.55750000E+003

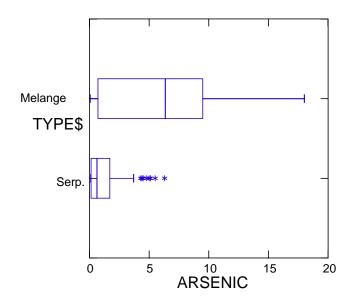
Franciscan melange 52 3.57050000E+003

Mann-Whitney U Test Statistic 1.70750000E+003

p-value : 0.23438578 Chi-square Approximation: 1.41404671

Df: 1

Not sufficient evidence of difference



Dependent variable **ARSENIC** Grouping variable | TYPE\$

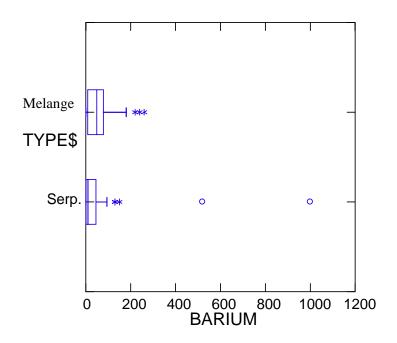
Group Count Rank Sum

Serp. 75 3.60500000E+003

52 4.52300000E+003 Franciscan melange

Mann-Whitney U Test Statistic 755.00000000 p-value 0.00000000Chi-square Approximation 34.33104387 1

Df:



Dependent variable: BARIUM Grouping variable: TYPE\$

Group Count: Rank Sum

•

Serp. 75 4.01100000E+003

Franciscan melange 52 4.11700000E+003

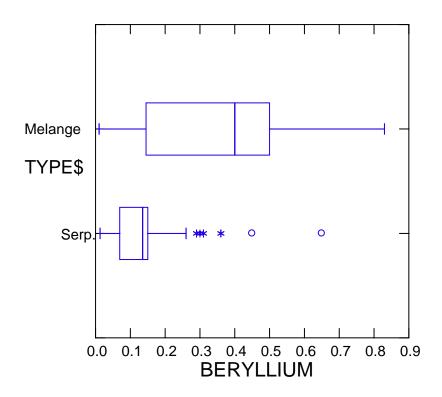
Mann-Whitney U Test Statistic 1.16100000E+003

p-value 0.00010942 Chi-square Approximation 14.96672692

Df: 1

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APPENDIXJ



Dependent variable: BERYLLIUM

Grouping variable: TYPE\$

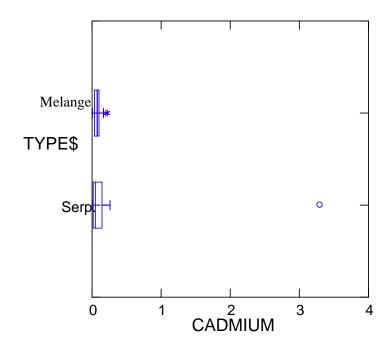
Group Count Rank Sum

Serp. 75 3.69100000E+003

Franciscan melange 52 4.43700000E+003

Mann-Whitney U Test Statistic: 841.00000000 p-value: 0.00000005 Chi-square Approximation: 29.62154244

Df: 1



Dependent variable: CADMIUM Grouping variable: TYPE\$

Group Count Rank Sum

Serp. 75 4.74850000E+003

Franciscan melange 52 3.37950000E+003

Mann-Whitney U Test Statistic: 1.89850000E+003 p-value: 0.80054514

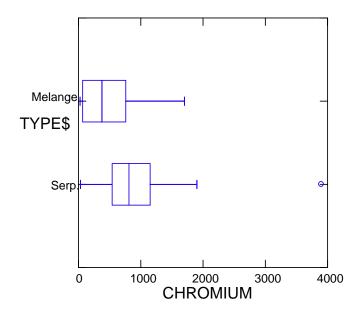
Chi-square Approximation: 0.06382781

Df:

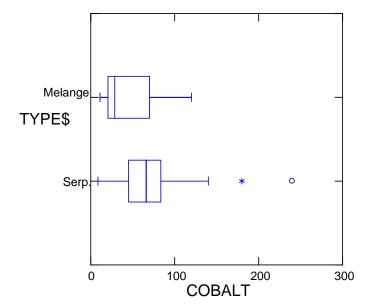
Not sufficient evidence of difference

KB62800_APPENDIX J.doc-Presidio

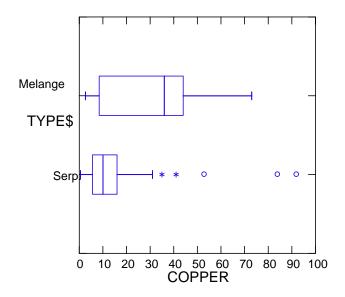
APPENDIX J



Dependent variable **CHROMIUM** Grouping variable TYPE\$ Group Count Rank Sum Serp. 75 5.72850000E+003 Franciscan melange 52 2.39950000E+003 Mann-Whitney U Test Statistic 2.87850000E+003 p-value 0.00000527Chi-square Approximation 20.73758099 Df



Dependent variable Grouping variable	COBALT TYPE\$
Group Count	Rank Sum
Serp. 75 Franciscan melange 52	5.62900000E+003 2.49900000E+003
Mann-Whitney U Test Statistic p-value Chi-square Approximation df	2.77900000E+003 0.00004799 16.52583184



Dependent variable COPPER Grouping variable TYPE\$

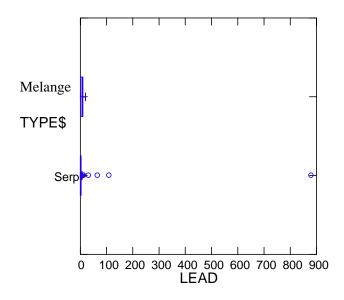
Group Count Rank Sum

Serp. 75 3.87500000E+003

Franciscan melange 52 4.25300000E+003

Mann-Whitney U Test Statistic 1.02500000E+003 p-value 0.0000572 Chi-square Approximation 20.57821657

df 1



Dependent variable LEAD Grouping variable TYPE\$

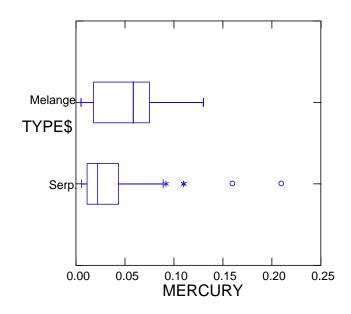
Group Count Rank Sum

Serp. 75 4.02250000E+003

Franciscan melange 52 4.10550000E+003

Mann-Whitney U Test Statistic 1.17250000E+003 p-value 0.00013771 Chi-square Approximation 14.53318828

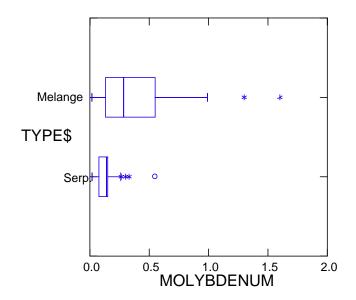
df 1



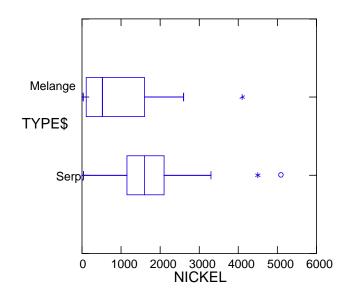
Dependent variable Grouping variable	MERCURY TYPE\$
Group Count	Rank Sum
Serp. 75	4.10300000E+003
Franciscan melange 52	4.02500000E+003
Mann-Whitney U Test Statistic	1.25300000E+003
p-value	0.00063091
Chi-square Approximation	11.68248134

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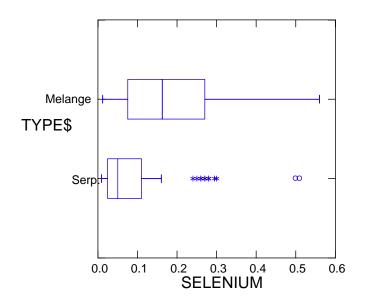
APPENDIXJ



Dependent variable **MOLYBDENUM** Grouping variable TYPE\$ Group Count Rank Sum 3.86450000E+003 Serp. 75 Franciscan melange 52 4.26350000E+003 Mann-Whitney U Test Statistic 1.01450000E+003 p-value 0.00000444 Chi-square Approximation 21.06335887 df



Dependent variable **NICKEL** Grouping variable TYPE\$ Group Count Rank Sum 5.73450000E+003 Serp. 75 Franciscan melange 52 2.39350000E+003 Mann-Whitney U Test Statistic 2.88450000E+003 p-value 0.00000454 Chi-square Approximation 21.02420963 df



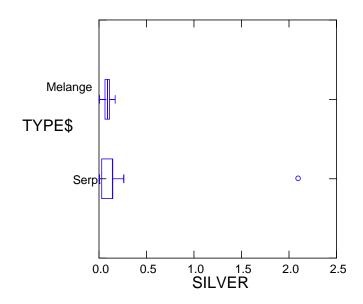
Dependent variable SELENIUM Grouping variable TYPE\$

Group Count Rank Sum

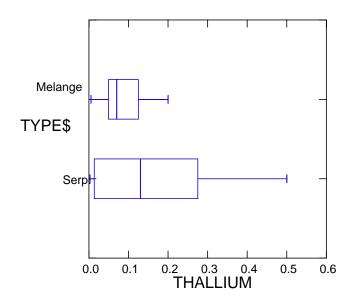
Serp. 75 3.92150000E+003

Franciscan melange 52 4.20650000E+003

Mann-Whitney U Test Statistic 1.07150000E+003 p-value 0.00001647 Chi-square Approximation 18.55958854



Dependent variable	SILVER
Grouping variable	TYPE\$
Group Count	Rank Sum
Serp. 75	5.28600000E+003
Franciscan melange 52	2.84200000E+003
Mann-Whitney U Test Statistic p-value Chi-square Approximation df	2.43600000E+003 0.01699672 5.69671209



Dependent variable THALLIUM Grouping variable TYPE\$

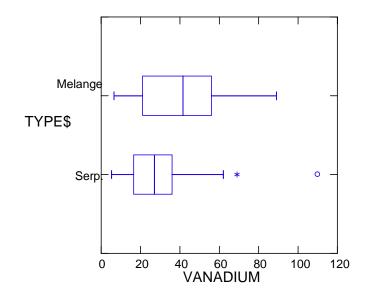
Group Count Rank Sum

4.89100000E+003 Serp.

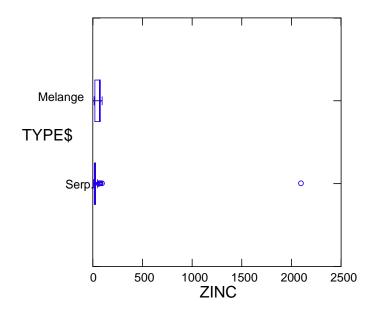
52 Franciscan melange 3.23700000E+003

Mann-Whitney U Test Statistic 2.04100000E+003 p-value 0.65541159 Chi-square Approximation 0.19914534df

Not sufficient evidence of difference



Dependent variable Grouping variable Group Count	VANADIUM TYPE\$ Rank Sum
Serp. 75 Franciscan melange 52	4.12500000E+003 4.00300000E+003
Mann-Whitney U Test Statistic p-value Chi-square Approximation df	1.27500000E+003 0.00093177 10.95846270



Dependent variable: ZINC Grouping variable TYPE\$

Group Count Rank Sum

Serp. 75 3.71850000E+003

Franciscan melange 52 4.40950000E+003

Mann-Whitney U Test Statistic: 868.50000000 p-value 0.00000011 Chi-square Approximation 28.14269828

df

APPENDIX K QUALITY ASSURANCE MEMORANDUM

To:

Ram Rao - Project Engineer

Glen Angel – Construction Manager

From:

Warren Chamberlain - CQA Officer

USC

Date:

Sept 25, 2007

Subject:

CQA inspection visit

Project Number:

4088075118 .03.01

I performed a visit to the Baker Beach Area 1 and 2A excavation sites on September 25, 2007. The purpose of the Site visit was to observe the implementation and work practices outlined in Appendix F of the Remedial Design Document and Remedial Action Work Plan, Baker Beach Areas 1 and 2A, Presidio of San Francisco, dated July 17, 2007. I was accompanied by Andrew Nolan during the site visit.

In general, all aspect of the work appeared to be progressing in a clean and orderly manner, and given the difficult working conditions, the site is extremely well organized. Most of the excavation work performed to date has occurred within the Baker Beach Area 1, while site preparation activities are occurring in the Baker Beach Area 2. Due to the sensitive nature of the project, all protection measures outlined in the Workplan had been implemented; such measures included protection of historic and cultural features. Stockpile areas were clearly outlined and protection and a drainage culvert across Bowman Road was emplaced.

The excavation boundaries were clearly outlined with orange colored fencing, and/or paint. All workmen within the work site were wearing appropriate PPE and dust monitoring was being performed. The excavation has grown from originally estimations due to thicker sections of debris being present, based on the shape of the excavation, dumping likely occurred into a natural ravine-like structure that was not recorded on historical documents, but in hindsight, such a feature would make a readily accessible dumping area. An active effort was being performed to segregate excavated material into soil and construction debris stockpiles. Through this process many archaeological items have been found and passed onto a representative from URS (the site's archaeologist).

No confirmation sampling was observed on the day of the Site visit, however, lettered and numbered posts and flags had been set up to facilitate the construction of a confirmation sampling grid. At the time of the site visit, the sampling grid was being prepared by the spraying of orange paint along the northern section of the excavation.

The site visit was performed two days following a severe storm, and effective implementation of the required storm water management BMPs has resulted in non adverse impact to the surround environment. BMP implemented included the placement of wattles to control run-off, covering of large (~1,000 cubic yard) soil stockpiles with filter cloth, construction and operation of a settlement pond at the toe of the excavation, and construction of a truck tire cleaning facility. An active groundwater seep occurs from



"basement" rock outcrop and is located about half way down the cliff face. Water from this seep is being diverted to a catchment pond at the toe of the slope, pumped to an onsite 500-gallon poly tank and later pumped to a 20,000 gallon storage tank atop the bluff.

At the time of the site visit, additional waste materials can be readily observed in portions of the freshly unearthed landfill. MACTEC staff actively identifies debris and consults with the contractor to design the best possible mitigation strategy. MACTEC is providing pro-active guidance to the construction management of the Site, resulting in minimal delays to the work's progress. In summary, CQA procedure put in place, are being followed and are resulting in an organized and well maintained work environment.

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Construction Completion Report BBDAs 1 and 2A Landfill Removal POSF, CA MACTEC 4084075118 05.03 and 10.03

"CONSTRUCTION QUALITY ASSURANCE OFFICER CERTIFICATION"

CONSTRUCTION COMPLETION REPORT BAKER BEACH DISTURBED AREAS 1 AND 2A LANDFILL REMOVAL PRESIDIO OF SAN FRANCISCO, CALIFORNIA

This Construction Completion Report, prepared by MACTEC Engineering and Consulting, Inc. (MACTEC) for the Presidio Trust (Trust), and supporting documentation contained in project files, have been reviewed by me and provide documentation that construction at Baker Beach Disturbed Areas (BBDAs) 1 and 2A has been performed in general accordance with the intent of the Final Remedial Design Document and Remedial Action Work Plan (MACTEC, 2007c) and meets requirements of the Construction Quality Assurance Plan (CQA Plan; Appendix F of MACTEC, 2007c). Table K-1 lists key elements of the CQA plan and location of records providing supporting documentation.

MACTEC Engineering and Consulting, Inc.

Warren Chamberlain, P.E. Senior Principal Engineer

Signature Namen 5/61



Table K-1. Contract Quality Assurance Checklist Baker Beach Disturbed Areas 1 and 2A Landfill Removal

Elements of CQA Plan

CQA Element	Meets requirements of CQA Plan	Location of Documentation or Files
PERSONNEL		
QUALIFICATIONS AND		
ORGANIZATION		
Construction Manager	use	
CQA Officer	WAC	
Contractor	WEC	
MEETINGS DURING CONSTRUCTION		
Pre-Construction Kick-Off		Field Notes Volume 1 – 7/17/07 (sign in sheet
Meeting	NBC	for meeting) and Centric
Daily Meetings	WBC	Field notes binders and Centric (all volumes)
Weekly Meetings	WKC	Field notes in binders (all volumes) and Centric
CQA MONITORING AND	WEC	Tield notes in binders (an volumes) and centre
TESTING ACTIVITIES		
Earthwork and Erosion Controls	WBC	Erosion monitoring reports are in Centric and a hard copy is in Petaluma. Monitoring reports were sent to client by e-mail
Preconstruction	mec	-Vegetative clearance (Section 3.0 of text of Completion Report) -Crack monitoring (Appendix A of Completion Report) -Air monitoring (Appendix B of Completion Report) -Photographs (Appendix C of Completion Report)
Construction		-Crack monitoring (Appendix A of Completion Report) -Air monitoring, Compaction testing (Appendix B of Completion Report) -Photographs (Appendix C of Completion Report) -Backfilling Merchant Road (documentation is in Field Notes Volume 3) -Test pits and trenching activities (Appendix G of Completion Report) -Piezometer records (Appendix H of Completion Report)
	WBC	-Geotechnical monitoring (Appendix I of Completion Report)

CQA Element	Meets requirements of CQA Plan	Location of Documentation or Files
	usc.	-CQA inspection visit (Appendix K of Completion Report) -Confirmation sampling (Figure 4-7, Tables 4-3 to 8-1, Appendices D and J of Completion Report)
CONSTRUCTION DOCUMENTATION		
Daily Field Reports	WBC	Field Notes in Binders (Vol. 1-3) and Centric
Weekly Reports	WRC	Field Note Binders (Vol. 1-3) and Centric
Other Documentation		Tables, appendices, and figures in the Construction Completion Report.
Deficiency Identification and Corrective Action	WBC WBC	NA
Plan Modification	WBC	Section 4.0 of Completion Report text
Change in Scope Documentation	WRC	Weekly meeting notes in Field Notes in Binders (Vol. 1-3)
Final Inspection	wke	Final inspections Table 4-2 and Field Notes in Binder (Vol. 3)
Photographic Documentation		Appendix C of the Construction Completion Report, Figures 4-1 through 4-6
Site Survey Requirements	WBC.	Appendix F of the Construction Completion Report
Construction Completion Report		

Construction Quality Control (QC)/Quality Assurance (QA) Testing Protocol

CQA Element Type of Test	Responsible Party for QC Testing	Compliance Requirement	Monitoring/ Testing Frequency	Meets requirements of CQA Plan	Location of Documentation or Files
Compaction T	esting by ASTM	D2922 ¹			
Backfill in Restoration Areas	MACTEC	85%	1 test per 500 cubic yards	NA	NA
Buttress Fills	MACTEC	90%	1 test per 250 cubic yards	NA	NA
Trench and Test Pit Backfill	MACTEC	85%	1 test per 8- inch loose lift per 100 lineal feet of trench	WBC	Appendix B
Pavement Fills	MACTEC	90%	1 test per 8- inch loose lift per 100 lineal feet of roadway	NA	NA
Pavement Subgrades	MACTEC	95%	1 test per 100 lineal feet of roadway	NA	NA
Confirmation	Sampling ²				
Confirmation Sampling (Soil)	MACTEC	Cleanup Levels	See Section 3.2.5 of Volume II, RAWP for number of samples to be collected and COC list	WBC	Figure 4-7 Table 2-1, and 4-3 to 8-1 Appendices D and J
Confirmation Sampling (Extracted Groundwater Sampling)	MACTEC	Trust Industrial Wastewater Discharge Permit	One per Month Note: Samples collected twice during program due to low volume of water generated.	WBC	Appendix H Dewatering analytical, on file with Presidio Trust

CQA Element		Meets	Location of		
Type of Test	Responsible Party for QC Testing	Compliance Requirement	Monitoring/ Testing Frequency	requirements of CQA Plan	Documentation or Files
Erosion Contr	ol Monitoring ¹				
Construction Phase (Wattles, Silt Fences, Erosion Control Fabric, etc.)	Contractor	Visual Inspection	Weekly	WBC	Initial construction of erosion control features Section 3.0 of text, Field Notes Binder (vol. 1).
Post Construction Phase (Wattles, Silt Fences, Erosion Control Fabric, etc.)	MACTEC	Visual Inspection	Twice Monthly in Winter 2007 and 2008; Quarterly in Spring, Summer, and Fall 2008 and 2009	WBC	Centric and hard copy binder is in MACTEC Petaluma office.
Air Monitorin	g^1	·			32
Nuisance Dust Monitoring	MACTEC	500 micrograms per cubic meter ³	See Section B.9.1.2 (Appendix B) of the Asbestos Dust Monitoring, Vol II, RAWP	WBC.	Appendix B

Note:

- CQA Monitor will provide quality assurance oversight on 10% of the tests and/or monitoring events
- 2) In accordance with the Trust's QAPP, duplicate samples and equipment blank samples will be collected on 10% of the samples collected.
- 3) This is not a regulatory threshold but rather based on our experience on similar construction sites in the Bay Area. However, if visible dust is observed at lower levels, dust control measures described in Appendix B will be deployed by the Contractor.

Checked: MJH Approved: WC